

FIG. 1

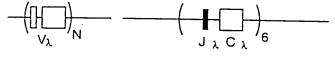


FIG. 2

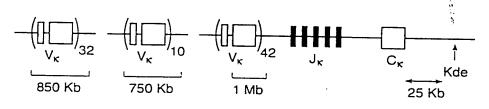
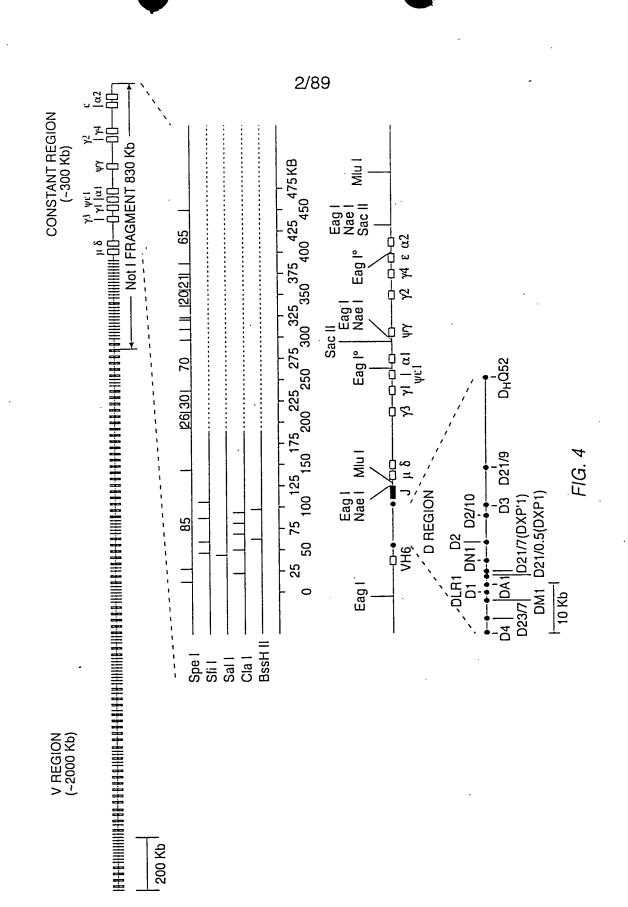


FIG. 3





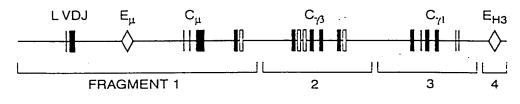


FIG. 5

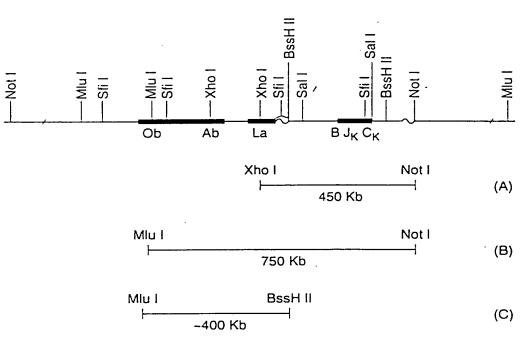
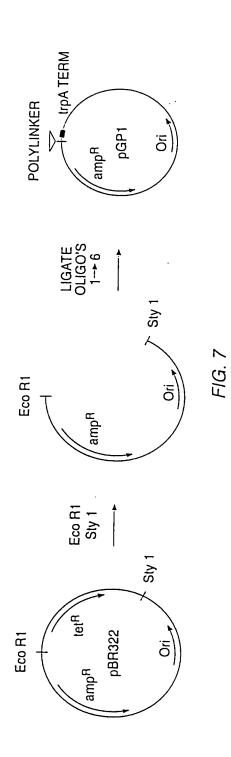


FIG. 6

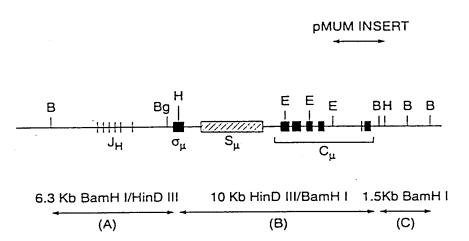




OLIGO-1	OLIGO-2	OLIGO-3
OLIGO-4	OLIGO-5	OLIGO-6
	56 BamH I 89 XI 42 Sfi I 75 Cla I	111 Sma I Sph I 127 Mlu I

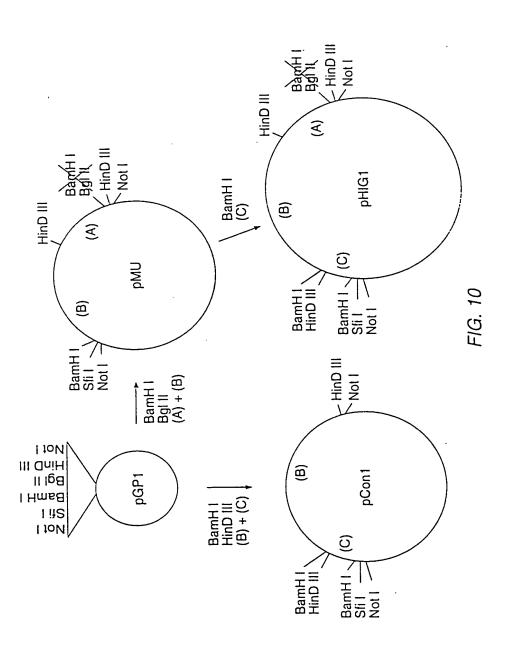
FIG. 8

pGP1 POLYLINKER



HUMAN μ LOCUS

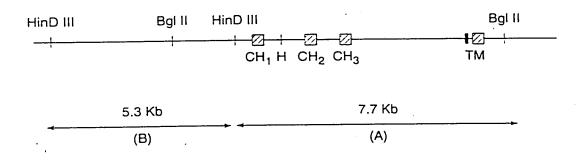
FIG. 9







HUMAN C₇₁ GENE



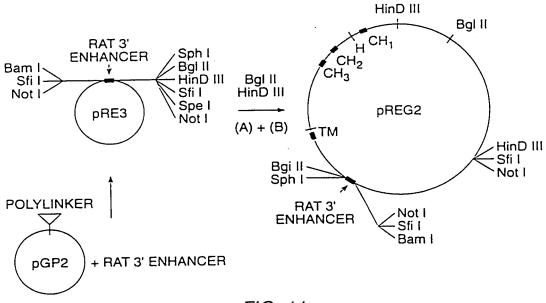
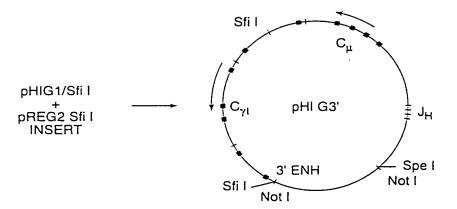
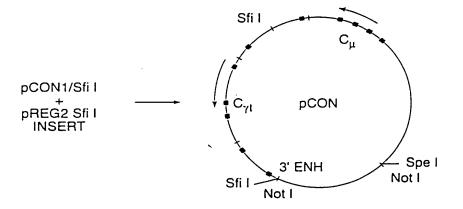


FIG. 11



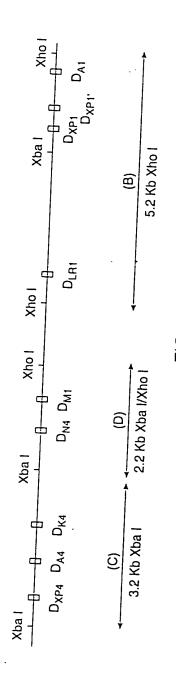
31.5 Kb Not I/Spe I INSERT



25 Kb Not I/Spe I INSERT

FIG. 12

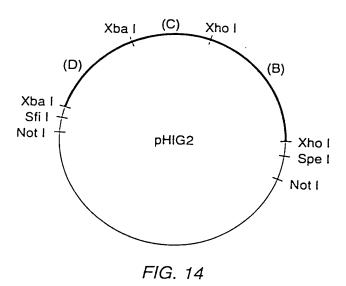
HUMAN D REGION







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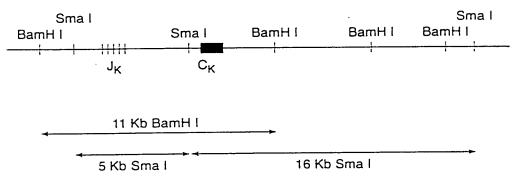


FIG. 15

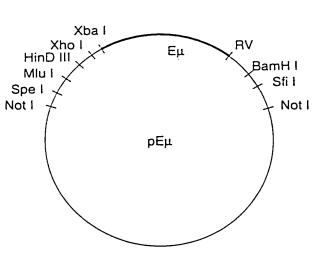
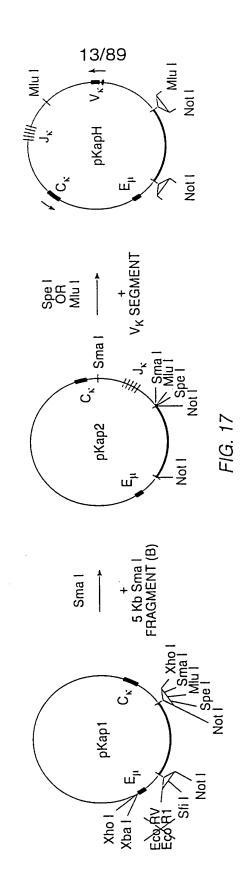


FIG. 16



MOUSE HEAVY CHAIN LOCUS

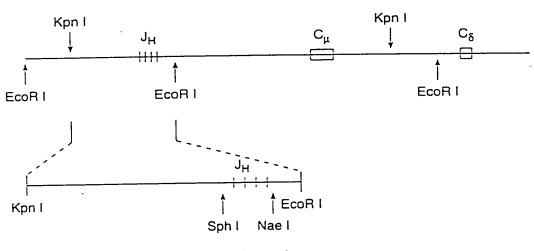


FIG. 18A



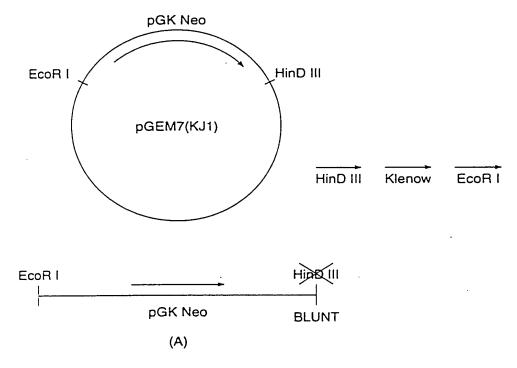


FIG. 18B

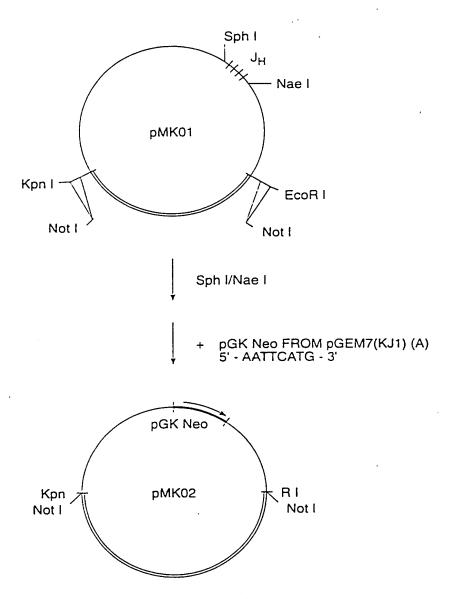
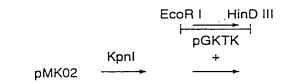
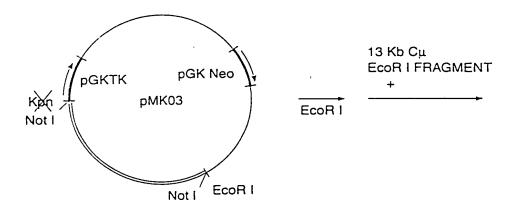


FIG. 18C





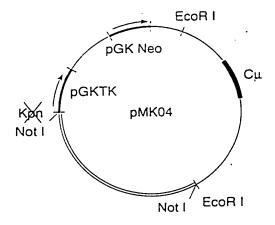


FIG. 18D



MOUSE KAPPA GENE

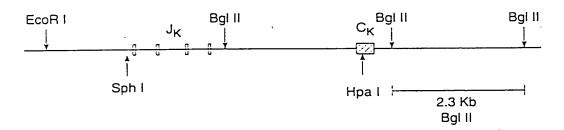


FIG. 19A



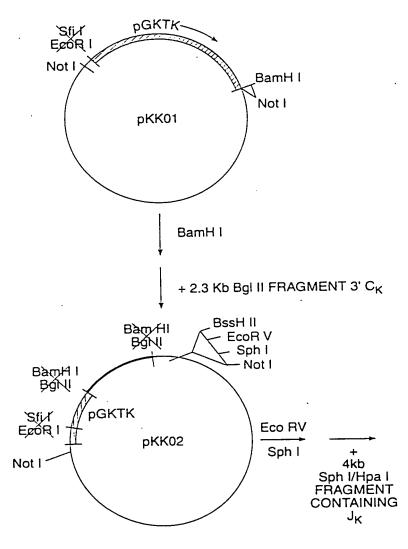
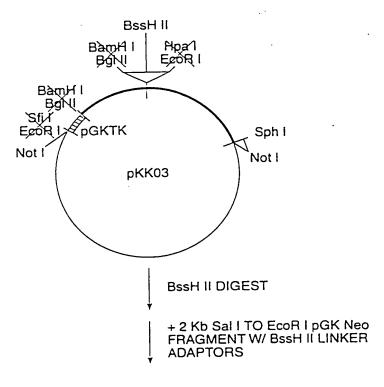


FIG. 19B





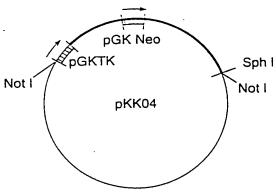
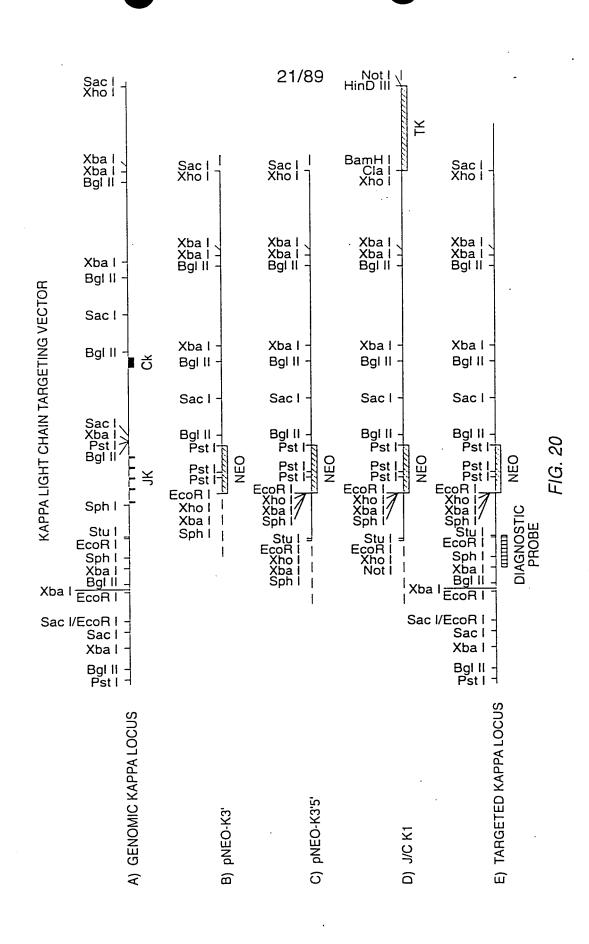
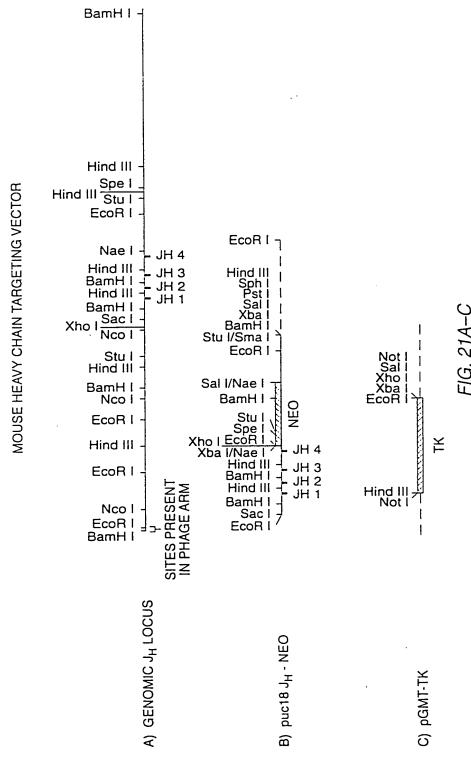
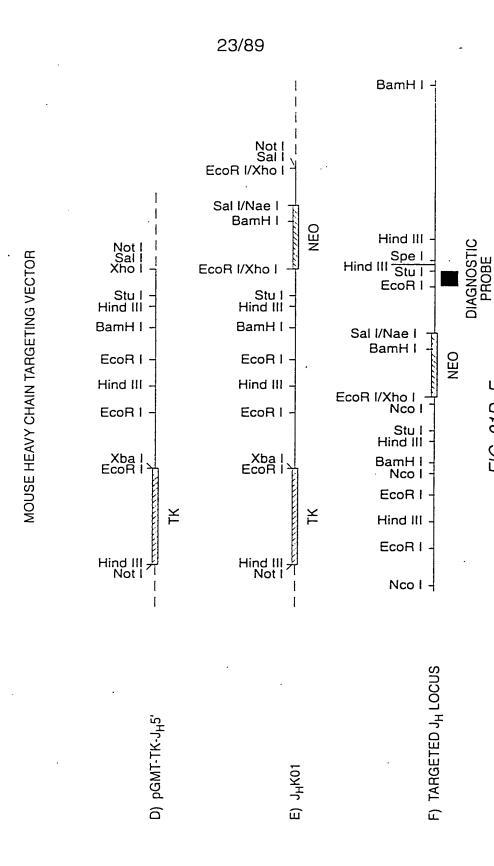


FIG. 19C











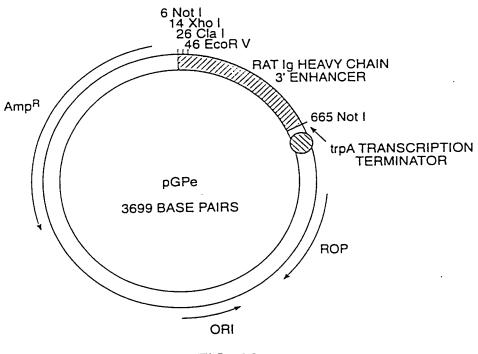
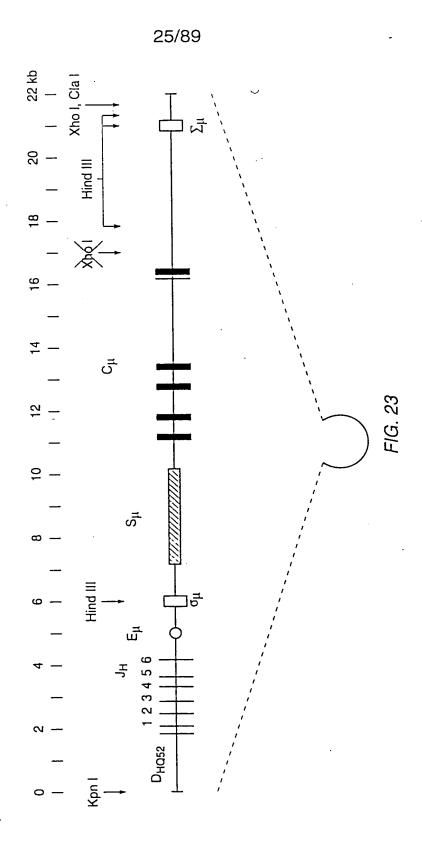
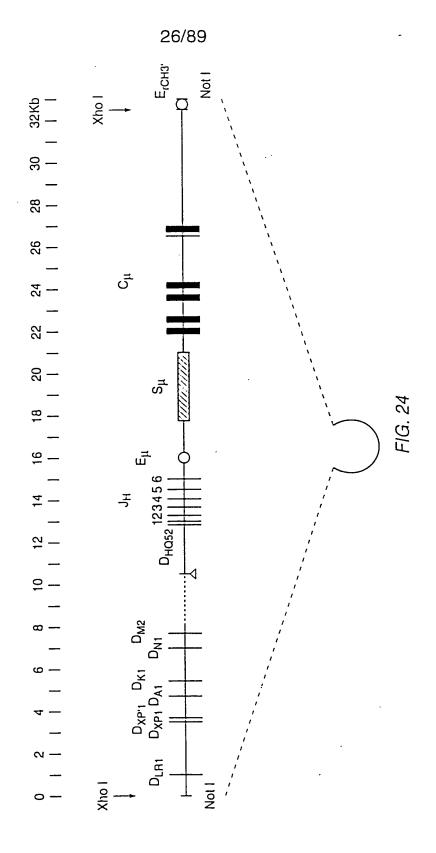
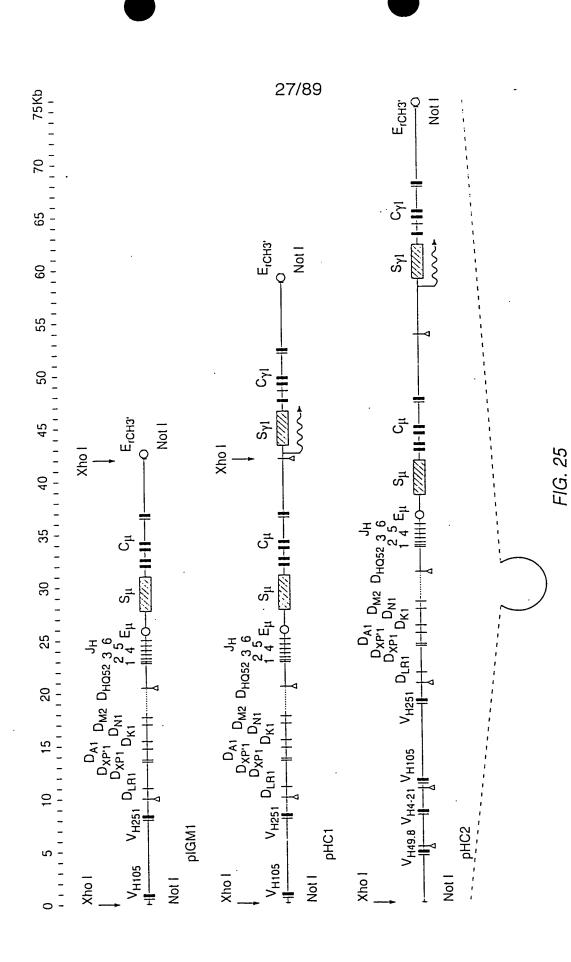
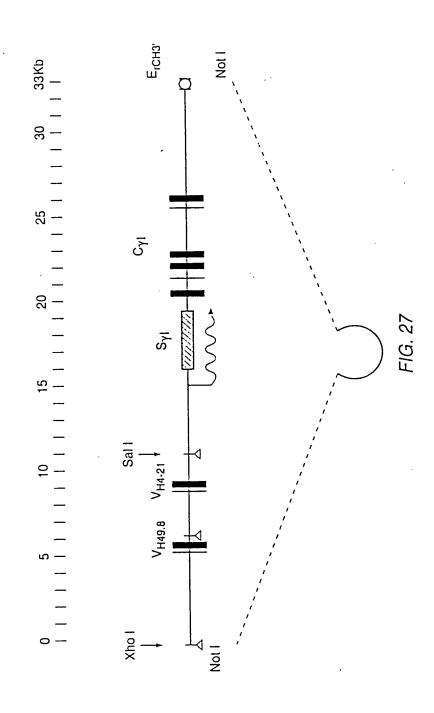


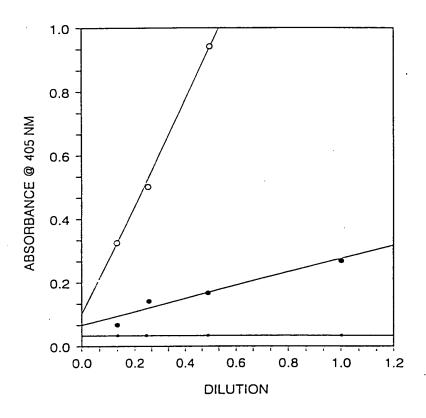
FIG. 22







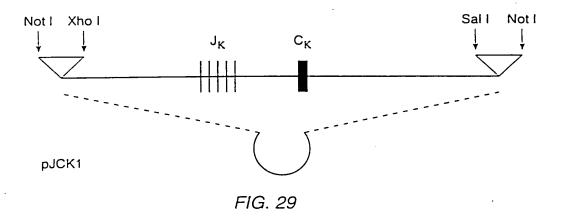


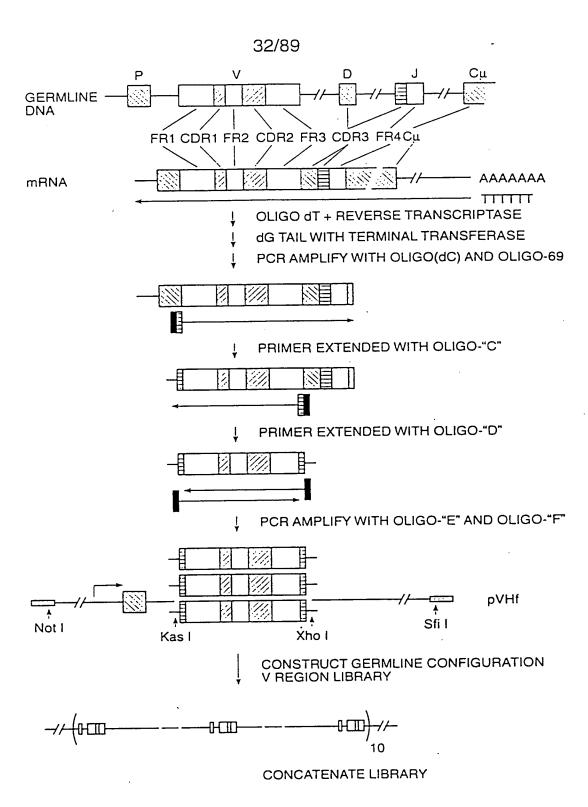


o IgM pHC1 TRANSGENIC
• IgG1 PHC1 TRANSGENIC

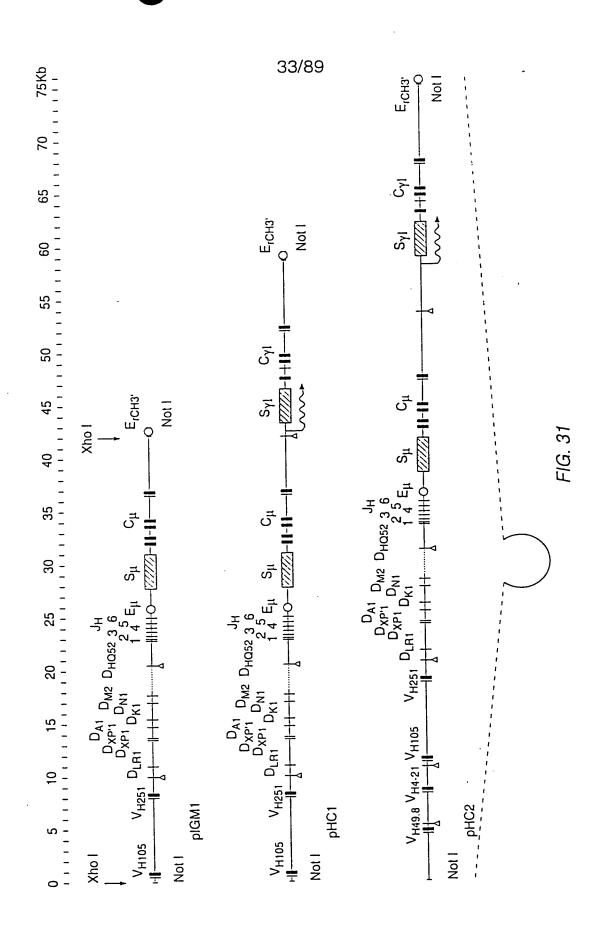
* IgM NON-TRANSGENIC CONTROL

FIG. 28

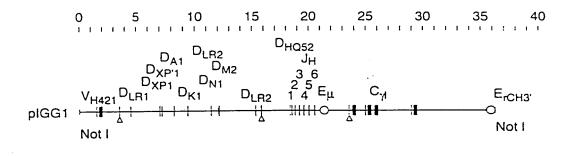


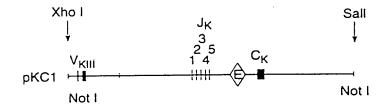


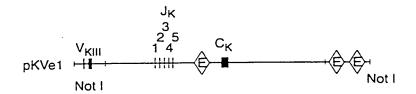
SYNTHETIC HEAVY CHAIN VARIABLE REGION FIG. 30











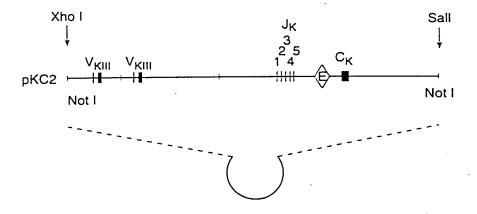
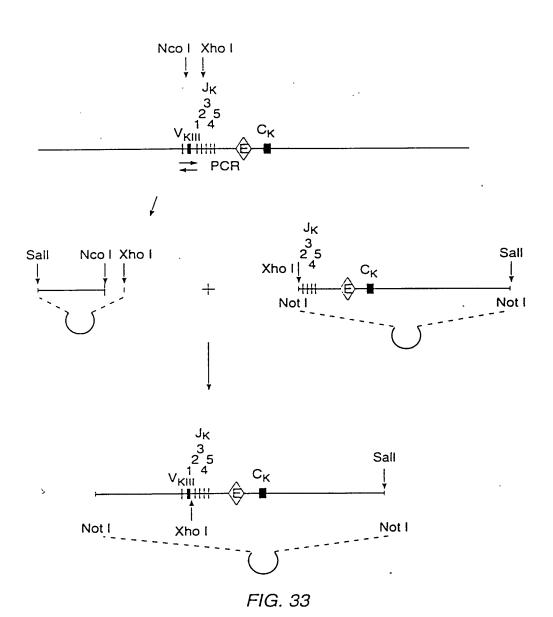
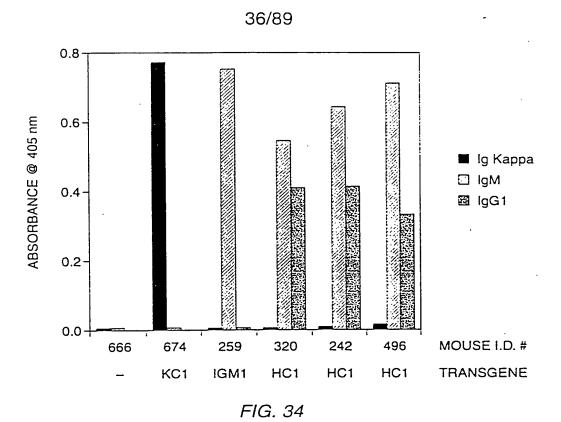
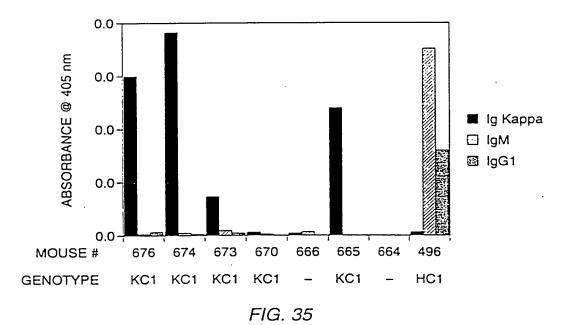


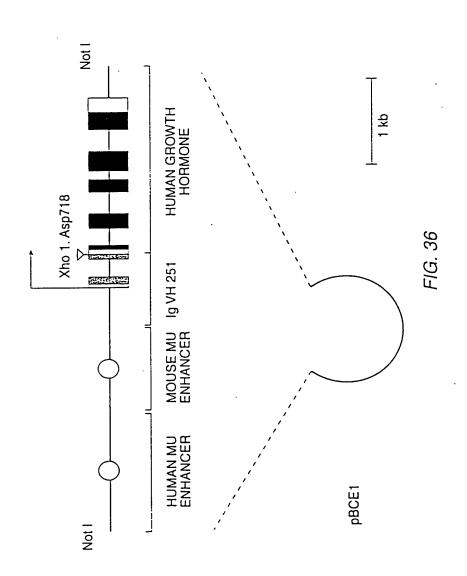
FIG. 32











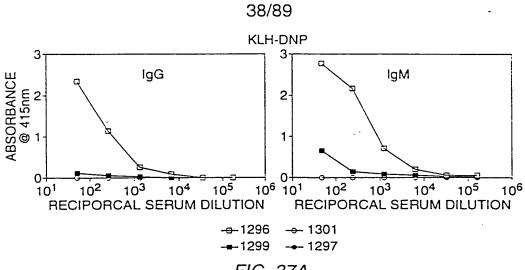


FIG. 37A

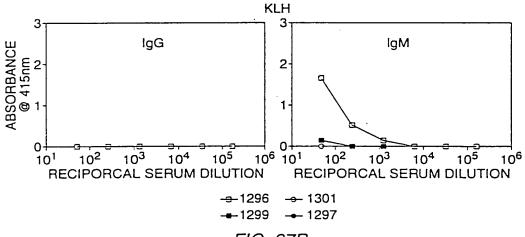


FIG. 37B

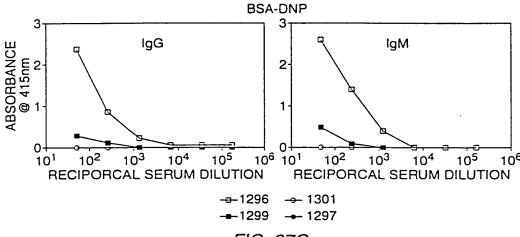


FIG. 37C

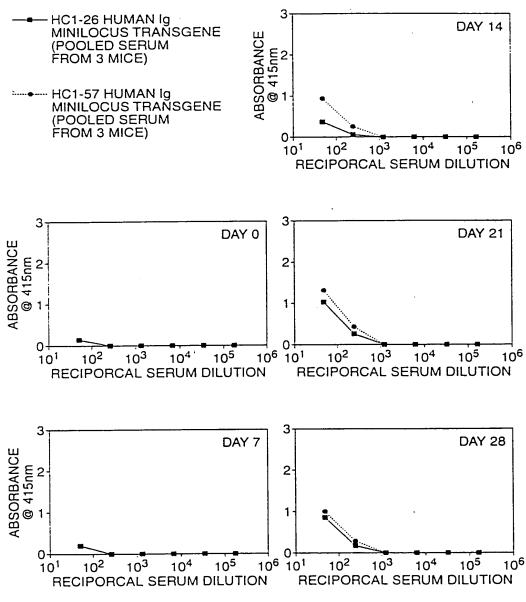
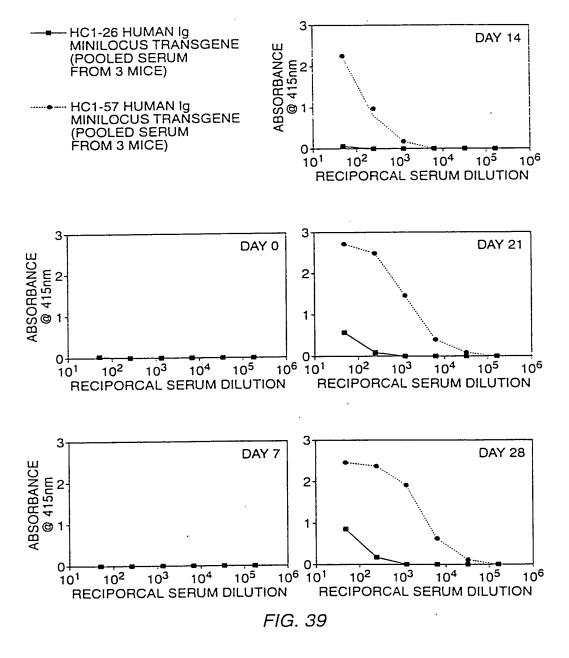


FIG. 38





101102108	TACTGGTACTTCGATCTCCTG	GCTTTTGATATCATG	tattatGCG	GGytattaTtatgAttcggggaCttattataaGTCTACCCT ctaactggCCT			:		•	•	AACTGGTTCGACCCCTG	ttattat TACTACTACTACGGTATGGACGTCACG	و ن		1
		CAGGGGGGATA	CATICCetaaAtggggaT CGCCattacgatattttgactggttattatGCG	. GGgtattaTtatgAttcggggaCl . ctaactggCCT	. CATCTT . CAAGGG	. CATCTT . CAAACT		. CATCTT		. GtggttcggggaTttattatT . CAAAGGGG	3 GGATCGTGG		. CATGagcagctggtacAGGGT . GATATGGGGGGGGCCTC	90 .	COR III
4 68 71 73 75 76 79 80 8182a82b 83 84 87 88 89 91 94	AAGGGTAGCTTTACCAGCTACGGCATGTATGATAGCTCCCAAACCGCCAAGATCAGCTACCTGCAGAGCAGGCAAGGCCACGCCATGTACAGA	CGCGCG	6	GTTATAC.GT				G	93			9			į
0 52 56 60 62 6	GTATGATAGCTCCCA	96.			99			Α					.C		COR 11
23 24 28 29 30 31 32 35 40 52 56 60 62 64	GL AAGGGTAGCTTTACCAGCTACGGCATV			J4 1TT. GA	99 V J	Тб.		19GTTCAT	27.	T. C. T.	36.	AC.			COR I

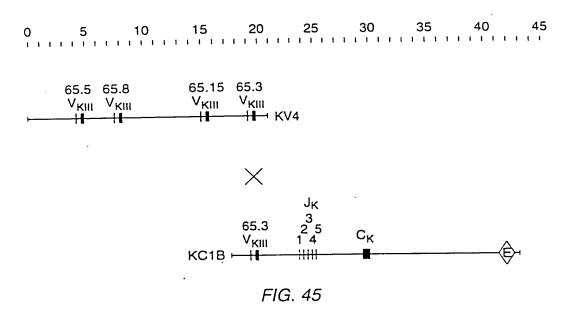
FIG. 40

TTTTCTGGCC TGACAACCAG GGTGGCGCAG GATGCTCAGT GCAGAGAGA	50
AGAAGCAGGT GGTCTCTGCA GCTGGAAGCT CAGCTCCCAC CCAGCTGCTT	100
TGCATGTCCC TCCCAGCTGC CCTACCTTCC AGAGCCCATA TCAATGCCTG	150
TGTCAGAGCC CTGGGGAGGA ACTGCTCAGT TAGGACCCAG AGGGAACCAT	200
Me GGAAGCCCCA GCTCAGCTTC TCTTCCTCCT GCTACTCTGG CTCCCAGgtg	250
tGluAlaPro AlaGlnLeuL euPheLeuLe uLeuLeuTrp LeuPro agggggaacc atgaggtggt tttgcacatt agtgaaaact cttgccacct	300
ctgctcagca agaaatataa ttaaaattca aagtatatca acaattttgg	350
ctctactcaa agacagttgg tttgatcttg attacatgag tgcatttctg	400
ttttatttcc aatttcagAT ACCACCGGAG AAATTGTGTT GACACAGTCT	450
Asp ThrThrGlyG luIleValLe uThrGlnSer CCAGCCACCC TGTCTTTGTC TCCAGGGGAA AGAGCCACCC TCTCCTGCAG	500
ProAlaThrL euSerLeuSe rProGlyGlu ArgAlaThrL euSerCysAr GGCCAGTCAG AGTGTTAGCA GCTACTTAGC CTGGTACCAA CAGAAACCTG	550
gAlaSerGln SerValSerS erTyrLeuAl aTrpTyrGln GlnLysProG GCCAGGCTCC CAGGCTCCTC ATCTATGATG CATCCAACAG GGCCACTGGC	600
lyGlnAlaPr oArgLeuLeu IleTyrAspA laSerAsnAr gAlaThrGly ATCCCAGCCA GGTTCAGTGG CAGTGGGTCT GGGACAGACT TCACTCTCAC	650
IleProAlaA rgPheSerGl ySerGlySer GlyThrAspP heThrLeuTh CATCAGCAGC CTAGAGCCTG AAGATTTTGC AGTTTATTAC TGTCAGCAGC	700
rIleSerSer LeuGluProG luAspPheAl aValTyrTyr CysGlnGlnA GTAGCAACTG GCCTCQCACA GTGATTCCAC ATGAAACAAA AACCCCAACA	750
rgSerAsnTr pPro AGACCATCAG TGTTTACTAG ATTATTATAC CAGCTGCTTC CTTTACAGAC	800
AGCTAGTGGG GT	812

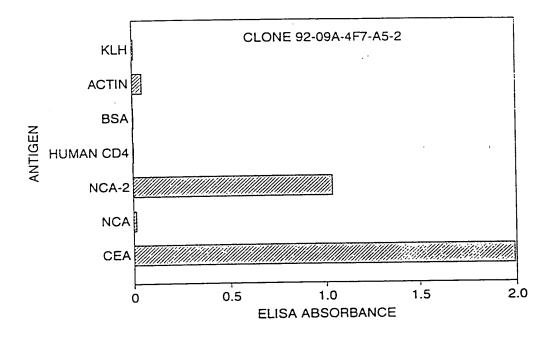
43/89 AGGGCGGCGC AGATGCTCAG TGCAGAGAGA AGAAACAGGT GGTCTCTGCA 50 GCTGGAAGCT CAGCTCCCAC CCCAGCTGCT TTGCATGTCC CTCCCAGCTG 100 CCCTACCTTC CAGAGCCOAT ATCAATGCCT GGGTCAGAGC TCTGGGGAGG 150 AACTGCTCAG TTAGGACCCA GACGGAACCA TGGAAGCCCC AGCGCAGCTT 200 M etGluAlaPr oAlaGlnLeu CTCTTCCTCC TGCTACTCTG GCTCACAGgt gaggggaata tgaggtgtct 250 LeuPheLeuL euLeuLeuTr pLeuThr ttgcacatca gtgaaaactc ctgccacctc tgctcagcaa gaaatataat 300 taaaattcaa aatagatcaa caattttggc tctactcaaa gacagtgggt 350 ttgattttga ttacatgagt gcatttctgt tttatttcca atttcagATA 400 CCACCGGAGA AATTGTGTTG ACACAGTCTC CAGCCACCCT GTCTTTGTCT 450 hrThrGlyGl uIleValLeu ThrGlnSerP roAlaThrLe uSerLeuSer CCAGGGGAAA GAGCCACCCT CTCCTGCAGG GCCAGTCAGG GTGTTAGCAG 500 ProGlyGluA rgAlaThrLe uSerCysArg AlaSerGlnG lyValSerSe CTACTTAGCC TGGTACCAGC AGAAACCTGG CCAGGCTCCC AGGCTCCTCA 550 rTyrLeuAla TrpTyrGlnG lnLysProGl yGlnAlaPro ArgLeuLeuI TCTATGATGC ATCCAACAGG GCCACTGGCA TCCCAGCCAG GTTCAGTGGC 600 leTyrAspAl aSerAsnArg AlaThrGlyI leProAlaAr gPheSerGly AGTGGGCCTG GGACAGACTT CACTCTCACC ATCAGCAGCC TAGAGCCTGA 650 SerGlyProG lyThrAspPh eThrLeuThr IleSerSerL euGluProGl AGATITICA GTITATTACT GTCAGCAGCG TAGCAACTGG CATCCCACAG 700 uAspPheAla ValTyrTyrC ysGlnGlnAr gSerAsnTrp His TGATTCCACA TGANACAAAA ACCCCAACAA GACCATCAGT GTTTACTAGA 750 TTATTATACC AGCTGCTTCC TTTACAGACA GCTAGTGGGG TGGCCACTCA 800 GTGTTAGCAT CTCAGCTCTA TTTGGCCATT TTGGAGTTCA AGTTGTCAAG 850 TCCAAAATTA CTTATGTTAG TCCATTGCAT CATACCATTT CAGTGTGGCT 900

CCGCCCCAGC	TGCTTTGCAT	GTCCCTCCCA	GCCGCCCTGC	AGTCCAGAGC	50
COATATCAAT	GCCTGGGTCA	GAGCTCTGGA	GAAGAGCTGC	TCAGTTAGGA	100
ACCCCAGAGG	GAACCATGGA MetGl	AACCCCAGCG uThrProAla			150
uLeuTrpLeu	CCAGgtgagg Pro	ggaacatggg	atggttttgc	atgtcagtga	200
aaaccctctc	aagtcctgtt	acctggcaac	tctgctcagt	caatacaata	250
attaaagctc	aatataaagc	aataattctg	gctcttctgg	gaagacaatg	300
ggtttgattt	agattacatg	ggtgactttt	ctgttttatt	tccaatctca	350
gATACCACCG	GAGAAATTGT	GTTGACGCAG	TCTCCAGGCA	CCCTGTCTTT hrLeuSerLe	400
GTCTCCAGGG	GAAAGAGCCA	CCCTCTCCTG	CAGGGCCAGT	CAGAGTGTTA GlnSerValS	450
GCAGCAGCTA	CTTAGCCTGG	TACCAGCAGA	AACCTGGCCA	GGCTCCCAGG nAlaProArg	500
CTCCTCATCT	ATGGTGCATC	CAGCAGGGCC	ACTGGCATCC	CAGACAGGTT	550
CAGTGGCAGT	GGGTCTGGGA	CAGACTTCAC	TCTCACCATC	roAspArgPh AGCAGACTGG	600
AGCCTGAAGA	TTTTGCAGTG	TATTACTGTC	AGCAGTATGG	SerArgLeuG TAGCTCACCT ySerSerPro	650
CCCACAGTGA	TTCAGCTTGA	AACAAAAACO	TCTGCAAGAC	CTTCATTGTT	700
TACTAGATTA	TACCAGCTGC	TTCCTTTACA	GATAGCTGCT	GCAATGACAA	750
CTCAATTTAG	CATCTCTCTC	TGCTTGGGCA	TTTTGGGGAT	CTTAAAAAAAG	800
TAATCCCTTG	ATATATTTT	GACTCTGATT	CCTGCATTTT	TCCTCAGACC	850
AAGATGGACA	GCCAGGTTTA	AGCACAGTTT	CACAGTAATG	GCCACTGGAT	900

AAACACATTC	TCTGCAGACA	AATTTGAGCT	ACCTTGATCT	TACCTGGACA	50
GGTGGGGACA	CTGAGCTGGT	GCTGAGTTAC	TCAGATGCGC	CAGCTCTGCA	100
GCTGTGCCCA	GCCTGCCCCA	TCCCCTGCTC	ATTTGCATGT	TCCCAGAGCA	150
CAACCTCCTG	CCCTGAAGCC	TTATTAATAG	GCTGGTCAGA	CTTTGTGCAG	200
GAATCAGACC	CAGTCAGGAC		CATGAGGGTC pMetArgVal l		250
TCCTGGGGCT	CCTGCTGCTC uLeuLeuLeu	TGTTTCCCAG	gtaaggatgg		300
cagtttactc	agcccagggt	gctcagtact	gctttactat	tcagggaaat	350
tctcttacaa	catgattaat	tgtgtggaca	tttgtttta	tgtttccaat	400
ctcagGTGCC	AGATGTGACA	TCCAGATGAC	CCAGTCTCCA	TCCTCACTGT	450
CTGCATCTGT	AGGAGACAGA	GTCACCATCA	rGlnSerPro CTTGTCGGGC	GAGTCAGGGT	500
ATTAGCAGCT	GGTTAGCCTG	GTATCAGCAG	hrCysArgAl AAACCAGAGA	AAGCCCCTAA	550
GTCCCTGATC	TATGCTGCAT	CCAGTTTGCA	LysProGluL AAGTGGGGTC	CCATCAAGGT	600
TCAGCGGCAG	TGGATCTGGG	ACAGATTTCA	nSerGlyVal CTCTCACCAT	CAGCAGCCTG	650
heSerGlySe CAGCCTGAAG	ATTTTGCAAC	TTATTACTGC	hrLeuThrIl CAACAGTATA	ATAGTTACCC	700
GlnProGluA ACC <u>CACAGTG</u>	spPheAlaTh TTACACACCC	rTyrTyrCys AAACATAAAC	GlnGlnTyrA _CCCCAGGGAA	snSerTyrPr GCAGATGTGT	750
o GAGGCTGGGC	TGCCCCAGCT	GCTTCTCCTG	ATGCCTCCAT	CAGCTGAGAG	800
TGTTCCTCAG	ATGCAGCCAC	ACTCTGATGG	TGTTGGTAGA	TGGGGAC	847







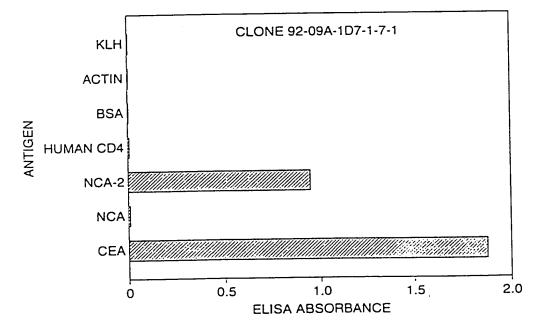
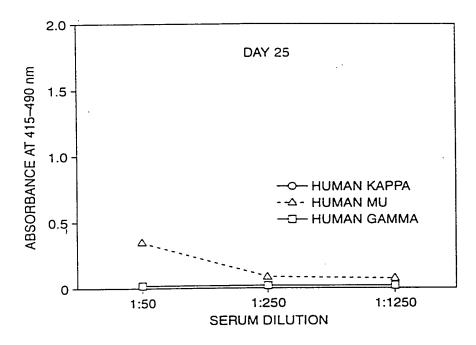


FIG. 46

		48/89)
KOUSE Cy	CCAAAACGACACCCCATCTGTCTATCCACT CCAAAACGACACCCCATCTGTCTATCCACT	CCAAAACAACACCCCATCAGTCTATCCACT CCAAAACAACCCCCATCAGTCTATCCACT CCAAAACAACACCCCATCAGTCTATCCACT CCAAAACAACACCCCATCAGTCTATCCACT	CTACAACAACCCCCATCTGTCTATCCCTT CTACAACAACAGCCCATCTGTCTATCCCTT CTACAACAACAGCCCATCTGTCTATCCCTT CTACAACAACAGCCCCATCTGTCTATCCCTT
	CGGT9TG¤ACGTCTGGGGCCAAGGAACACGGTCACCGTCTCCTCAG CCAAAACGACACCCCCATCTGTCTATCCACT GCTcTTGAT9TCTGGGGCCAAGGGACAATGCTCACCGTCTTCAG CCAAAACGACACCCCCATCTGTCTATCCACT	GCTTTTGATATCTGGGGCCAAGGACAATGGTCACCGTCTTCAG CCAAACAACACCCCCATCATCTATCACT GCTTTAGATATCTGGGGCCAAGGACAATGGTCACCGTCTTCAG CCAAACAACACCCCCATCAGTCTATCCACT TGACTACTGGGGCCAGGGACCCTGGTCACCGTCTCTAG CCAAACACACCCCCATCAGTCTATCACT GCTTTTGATATTGGGGCCAAGGGACAATGGTCACCGTCTTCAG CCAAAACACACCCCCATCAGTCTATCACT	GATATCTGGGCCAAGGACAATGGTCACCGTCTTCAG CTACAACAGACCCCCATCTGTCTATCCCTT TTGACTATTGGGCCAGGGAACCTGGTCACCGTCTCCTCAG CTACAACAACAGCCCCATCTGTCTATCCCTT GCTTTTGATATCTGGGGCCAAGGGACAATGGTCACCGTCTTCAG CTACAACAACAGCCCCATCTGTCTATCCTT TACTACTACTACGGTATGGGCCAAGGGACACGGTCACCGTCTCTCAG CTACAACAACAGCCCCATCTGTCTATCCCTT
HUNAN n D n		ACTGGGGAtgat cagaggagagat catagggACTATatTTGGGGAGTTATTttcc ACTGGGAtgat	catgggtctatg gagagggtcACTGGGAtcg aggGACCCCctgat cgGGGCCT
WRZS1	GCCTCGGACACCGCCATGTATTACTGTGtGAGA cottTATGGTTCGGGGAGTTACG GCCTCGGACACCGCCATGTATTACTGTGCGAGA cACTGGGcottggat	GCCTCGGACACCGCCATGTATTACTGTGCGAGA ACTGGGGAtgat GaCTCGGACACCGCCATGTATTACTGTGCGAGA caggggaggat GCCTCGGACACCGCCATGTATTATTGTGCGAGA catagggACTATATTCGGGGAGTTATTtcc GCCTCGGACACCGCCATGTATTACTGTGCGAGA ACTGGGGATgat	GCCTCGGACACCGCCAIGTATTACTGTGCGAGA catgggtctatg GCCTCGGACACCGCCATGTATTACTGTGCGAGA gagagcggtcaCTGGGAtcg GCCTCGGACACCGCCATGTATTACTGTGCGAGA aggGACCCCctgat GCCTCGGACACCGCCATGTATTACTGTGCGAGA cgGGGGCCT
	5 0XP'1 36 G1 7 0HQS2 33 G1	2 DHQS2 J3 G2b 3 D? J3 G2b 4 DXP'1 J4 G2b 10 DHQS2 J3 G2b	1 D? 33 G3 6 DHOS2 34 G3 8 DIRZ 33 G3 9 DIRZr 36 G3





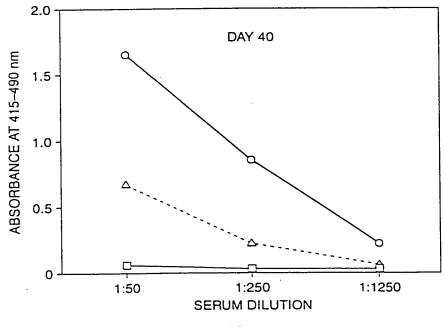


FIG. 48



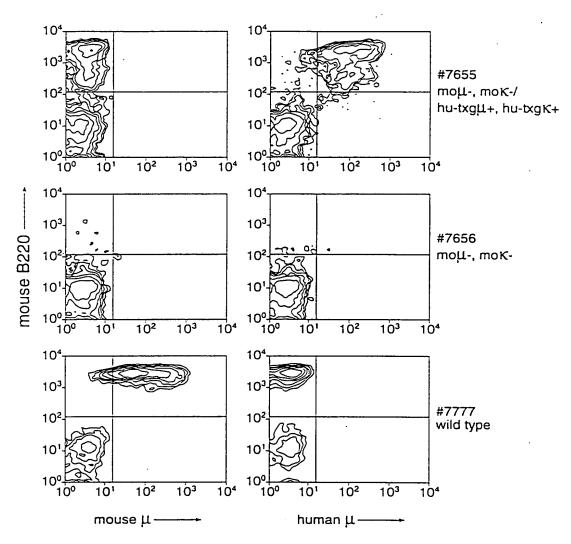


FIG. 49

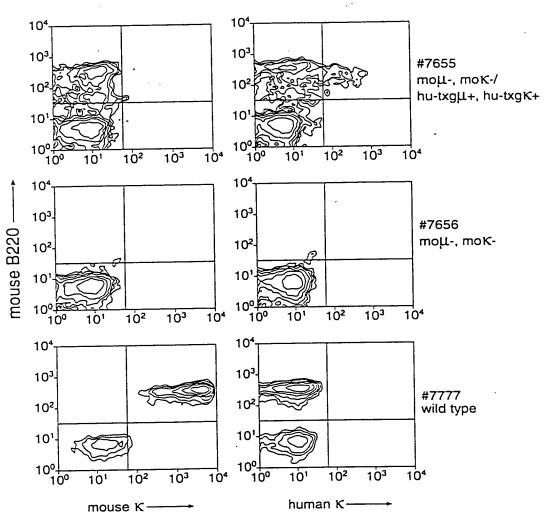


FIG. 50

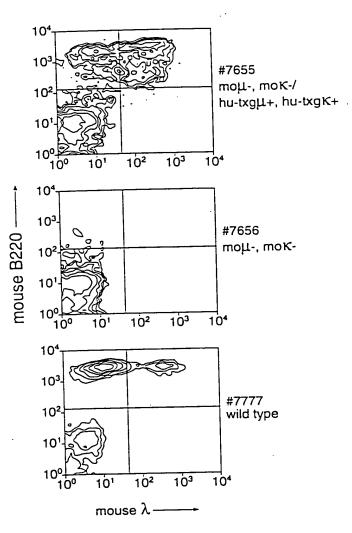


FIG. 51

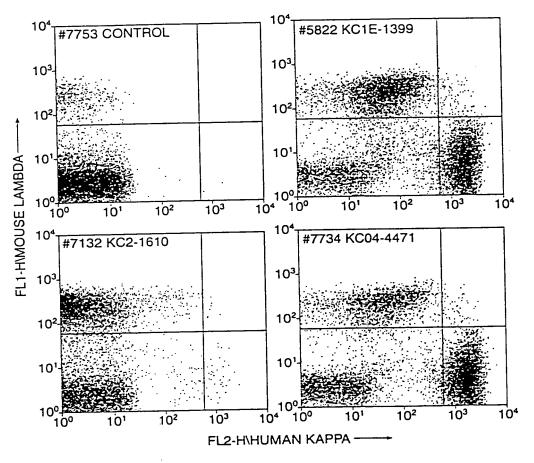
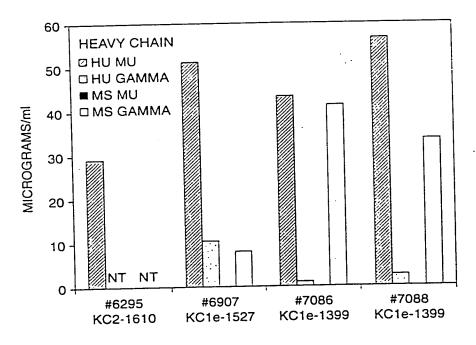


FIG. 52

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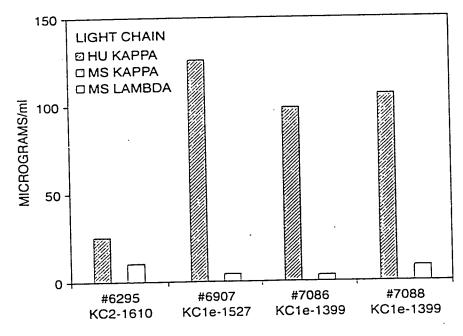


FIG. 53

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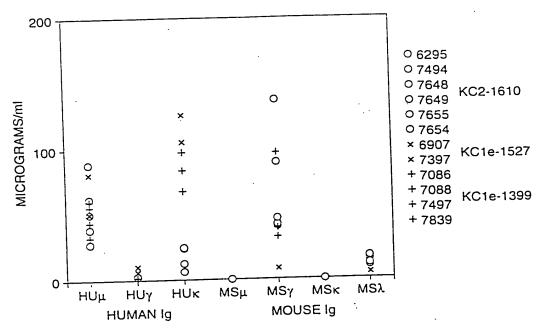


FIG. 54

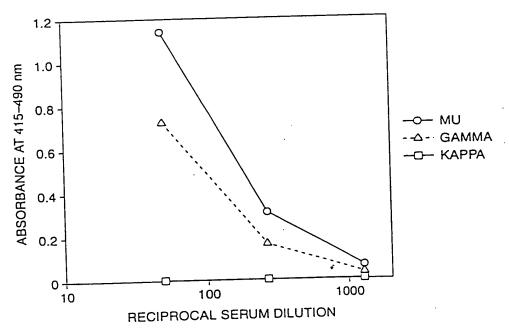
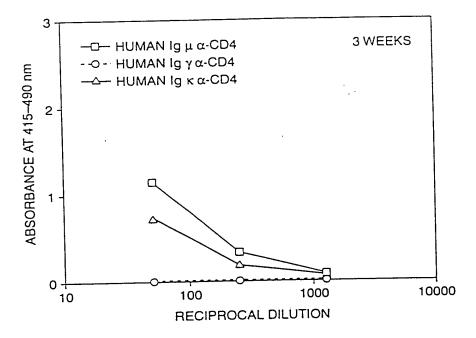


FIG. 55





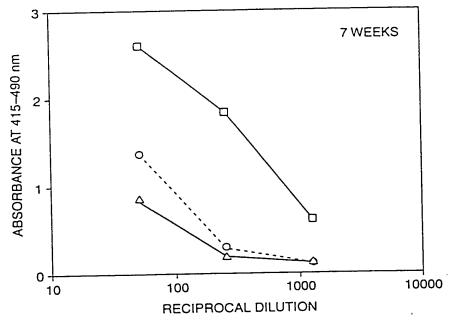
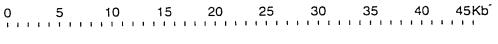
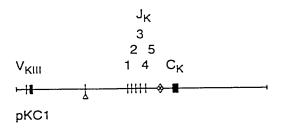


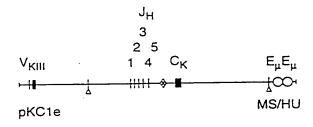
FIG. 56

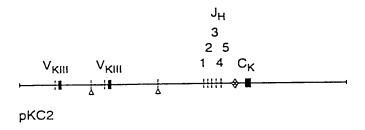




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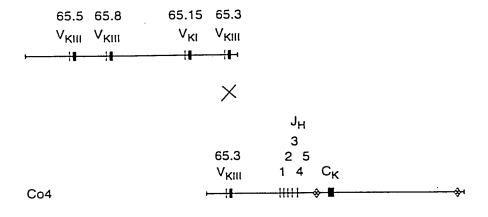


FIG. 57A

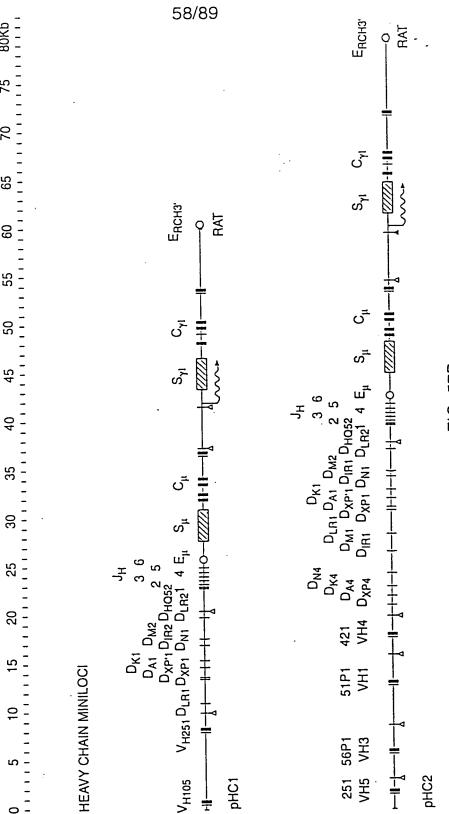


FIG. 57B

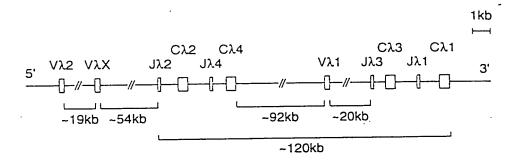
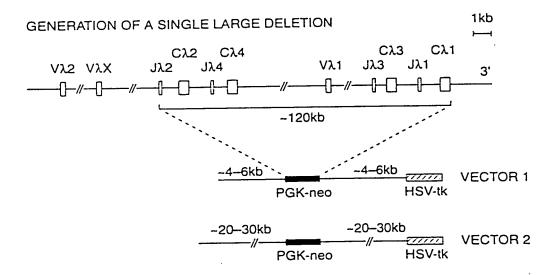


FIG. 58



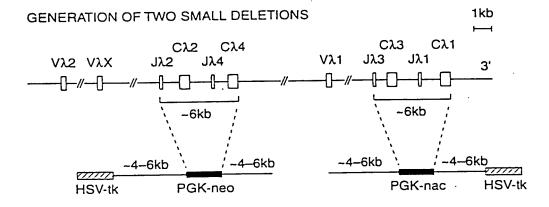
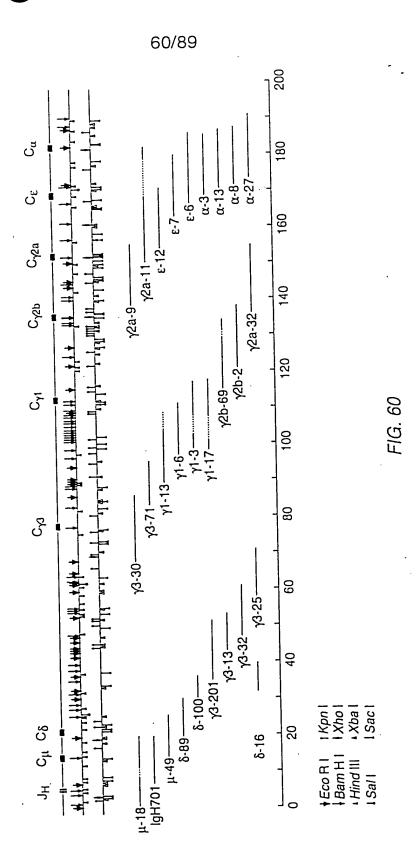


FIG. 59

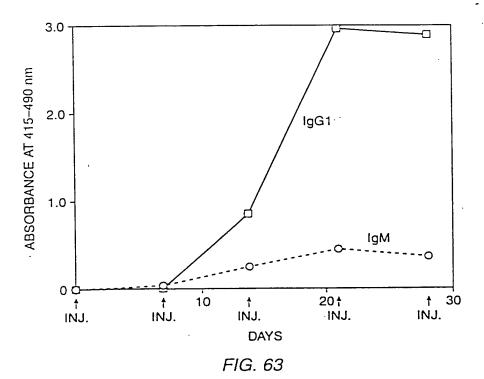


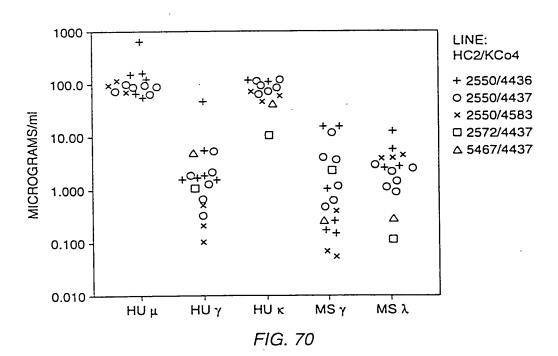


CGAGAGGGGGGGGGGAAGACTACTATCCCAGGCAGGTTTTAGGTTCCAGAGTCTGCGAG AAATCCCACCATCTACCCACTGACACTCCCACCAGTCCTGTGCAGTGATCCCGTGATAAT CGGCTGCCTGATTCACGATTACTTCCCTTTCGGCACGATGAATGTGACCTGGGGAAAGAG TGGGAAGGATATAACCACCGTGAACTTTCCACCTGCCCTCGCCTCTGGGGGACGGTACAC CATGAGCAGCCAGTTAACCCTGCCAGCTGTCGAGTGCCCAGAAGGAGAGTCCGTGAAATG TTCCGTGCAACATGACTCTAACCCCGTCCAAGAATTGGATGTGAATTGCTCTGGTAAAGA ACGTTAGGGGGTCAGCTAGGGGTGGGATAAGTCCTACCTTATCTAGATCCATATATCCCT CTGATGCACACCCTCACAGGAATCCCTCAGAAACCTCCACTATGGGGGATTGGGGGAAGGA AGCGTAAACAGGTCTAGAAGGAGCTGGAGGCCTCAGAACATCCAGAAACGGGGACAGCAA AGGAGACAAGGAGAATATACTGATTTGCTAGGACATCTTCTGTTACAGGTCCTACTCCTC CTCCTCCTATTACTATTCCTTCCTGCCAGCCCAGCCTGTCACTGCAGCGGCCAGCTCTTG AGGACCTGCTCCTGGGTTCAGATGCCAGCATCACATGTACTCTGAATGGCCTGAGAAATC CTGAGGGAGCTGCTTTCACCTGGGAGCCCTCCACTGGGAAGGATGCAGTGCAGAAGAAAG GCTGGAACAGTGGCGCATCATTCAAGTGCACAGTTACCCATCCTGAGTCTGGCACCTTAA CTGGCACAATTGCCAAAGTCACAGGTGAGCTCAGATGCATACCAGGACATTGTATGACGT CTTATATCACAGAGGGAAATTGGAGCTATCTGAGGAACTGCCCAGAAGGGAAGGCAGAG GGGTCTTGCTCTCGTCTGAGCCATAACTCTTCTTTCTACCTTCCAGTGAACACCTTC CCACCCAGGTCCACCTGCTACCGCCGCCGTCGGAGGAGCTGGCCCTGAATGAGCTCTTG TCCCTGACATGCCTGGTGCGAGCTTTCAACCCTAAAGAAGTGCTGGTGCGATGGCTGCAT GGAAATGAGGAGCTGTCCCCAGAAAGCTACCTAGTGTTTGAGCCCCTAAAGGAGCCAGGC GAGGGAGCCACCACCTACCTGGTGACAAGCGTGTTGCGTGTATCAGCTGAAACCTGGAAA CAGGGTGACCAGTACTCCTGCATGGTGGGCCACGAGGCCTTGCCCATGAACTTCACCCAG AAGACCATCGACCGTCTGTCGGGTAAACCCACCAATGTCAGCGTGTCTGTGATCATGTCA GAGGGAGATGGCATCTGCTACTGAGCCACCCTGCCTGTCCCTACTCCTAGAATAAACTCT GTGCTCATCCAAAGTATCCCTGCACTTCCACCCAGTGCCTGTCCACCACCCTGGGGTCTA CGAAACACAGGGAGGGGTCAGGGCCCAGGGAGGGAGAAATACCACCACCTAAGC

FIG. 61







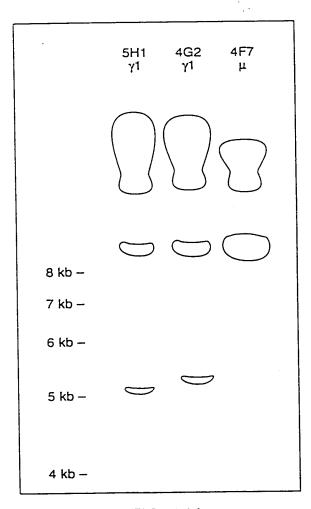
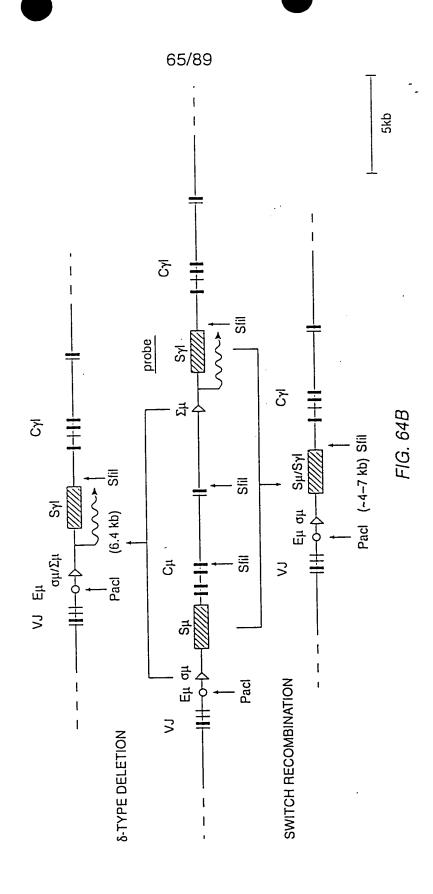


FIG. 64A



OOSELL ESCHERO

66/89 2357.t4 DXP'1 J4 gcctcggacaccgccatgtattaTtgtgTgaga CATAGGactatATttcggggagttattTTCC tgactactggggccagggaacccctggtcaccgtctcctcag ccaaaacaacacccccatcatccac gcttttgatatctggggccaagggacaatggtcaccgtctcttcag ccaaaacaacacccccatcagtctatccac gctCttgatGtctggggccaagggacaatgCtcaccgtctcttcag ccaaaacgacacccccatctgtctatccac gcttttgatatctggggccaagggacaatggtcaccgtctcttcag ccaaaacaacacccccatcagtctatccac gctttagatatctggggccaagggacaatggtcaccgtctcttcag ccaaaacaacacccccatcagtctatccac gatatciggggccaagggacaaiggicaccgicicitcag ciacaacaacagccccaicigiciaicci tttgactaTtggggccagggaaccctggtcaccgtctcctcag ctacaacaacagccccatctgtctatccct gcttttgatatctggggccaagggacaatggtcaccgtctcttcag ctacaacaacagccccatctgtctatccct tactactactacggtatggacgtctggggccaagggaccacggtcaccgtctcctcag ctacaacaacagccccatctgtctatccct cggtGtgAacgtctggggccaagggaccacggtcaccgtctcctcag ccaaaacgacacccccatctgtctatccac mouse y2b mouse $\gamma 3$ mouse γ1 ح 2357.t5 DXP'1 J6 gcctcggacaccgccatgtattactgtgTgaga CATTtatggttcggggagttaCG 2357.t6 DHQ52 J4 gcctcggacaccgccatgtattactgtgcgaga GAGAGCGGTCactggggaTCG z o z 2357.t7 DHQS2 J3 gcctcggacaccgccatgtattactgtgcgaga CactgggCATTGGAT 2357.t8 DIR2 J3 gcctcggacaccgccatgtattactgtgcgaga AGGgaccccCTGAT 2357.t1 D? J3 gcctcggacaccgccatgtattactgtgcgaga CATGGGTCTATG 2357.t3 D? J3 gActcggacaccgccatgtattactgtgcgaga CAGGGAGAGAT 2357.t2 DHQS2 J3 gcctcggacaccgccatgtattactgtgcgaga actggggaTGAT 2357.t10 DHQS2 J3 gcctcggacaccgccatgtattactgtgcgaga actggggaTGAT 2357.t9 DIR2R J6 gcctcggacaccgccatgtattactgtgcgaga CGggggcct V₁₁251

FIG. 65

human





SØ S2 ø S3 NTATCTATCCTGGTGACTCTGATACCAGATACGGCCGTCCTTCCAAGGCCAGGTC														COR 11
40 IATACAGCTTTACCAGCTACTGGATCGGCTGGGTGCGCCAGATGCCCGGGAAAGGCCTGGAGTGGATGGGG					J3 2599.25 J4									(OR 1
VH251.GL TC J2	2599.7	2599.9	2599.11	2599.14	J3 2599.25 J4	2599.2	2599.5	8.992	2599.23	2599.24	82.6652	J6 2599.10	2599.13	

FIG. 66A.

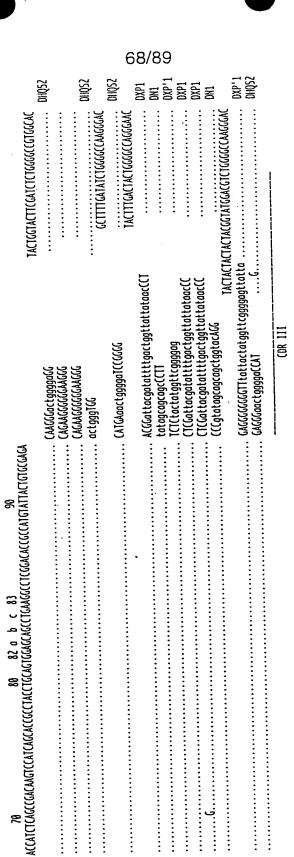


FIG. 66A.2

10 10 10 10 10 10 10 10	30 TACAGCTTTACCAGCTACTGGATGGGGGGGGAAAGGCCTGGAGTGGATGGGGATCATCTATCT		A.	A. C. G.	9		φ	 COR 11
912 324. sp28 324. sp28 3304. ln18 3304. ln3 3304. ln3 3304. ln1 3304. sp2 3304. sp2 3204. sp2	. 20 TCTCTGAAGATCTCCTGTAAGGGTTCTGGATACAGCTTTACCAGCTACTGGATCGGCTGGGTGCGCCAGATGCCCGGGAAAGGCCTGGAGTGG	(d					I	COR I

FIG. 66B.1

				7	70/8	39				
,	750110	zchin		250110	250110	OXP'1		OXP.1		
ACTGGTACTTCGATCTCTGGGGCCGTGGCACCCTGGTC		TACTTTGACTACTGGGGCCAGGGAACCCTGGTC	·····j·····		٠٠٠٠٠٠٠		AACTGGTTCGACCCTGGGCCAGGGAACCCTGGTC	ACTACGGTATGGACGTCTGGGGCCAAGGGACCACGGTC		
_	CAGGGactgggggaTCGGGGAA	GTAaactgggATCGG	CATAAGGGGGGATCAAC	. CATAAGGCGGGATCAAC . GactaagaaGAAGGGTAT	. CATAÁGGGGGGATCAAC Coortoo	. CATAAGGGGGGATCAAC . TatattartataattcaaaaattaCCaCaac	. CATAAGGGGGGATCAAC	. CAGGgtattactatggttcggCAaAttattatc TACTACTAC		COR 111
70 ACCATCTCAGCCGACAAGTCCATCAGCGCCCTACCTGCAGCGGCGAGCCTCGGACACCGCCATGTATTACTGTGCGAGA	CAGGactgggggaTCGGGAA		T CATAMGGGGGGATCAM	T CATAAGGGGGGATCAAC	6 T CATAGÓCIGOGATICAC	T CATAGGGGGGATCAAC	T. CATANGCGGGGATCAAC	CAGGGgtattactatggCttcgGCAAkttattataacATTA	A	

FIG. 66B.2

										7	1/	89	9											
20 S2 a S3 b6 S2 a S3														9	Ψ							Α		COR 11
40 GCTGGGTGCGCAGATGCCCGGGAAAGGCCTGGA																								•
30 GTTCTGGATACAGCTTTACCAGCTACTGGATCO									•					•	•	•			:			V	•	(SR 1
29 Statuteracatements	m		Św.	-	e			.m16	.m17													2357 m35		
1201	357.m1	32	<u>5</u>	3	Ř	32	357.	33	33	337	33	357	35	7357	357	£	7357	33.7	337	2357	7357	3	2357	

FIG. 67A





S8 S2 a S3 GCTGGAGTGGATGGGGATCATCTATCTGGTACCAGATACAGCCCGTCCTTCCAAGGCCAGGTC	9					Α Τ			JS JS 2357.g25 2357.g35		COR 11
40 GGTGGGTGCGCCAGATGCCCGGGAAAGG						<u> </u>				C	1
30 ITCTGGATACAGCTTTACCAGCTACTGGATC			TGA	CA		1			Α) 1 V	COX 1
20 M251.GL TCTCTGAAGATCTCCTGTAAGGG	12 2357.95	2357.g18 2357.g24	J4 2357.91 7357.02	2357.g3 2357.g4	2357.96 2357.911	2357.g1/ 2357.g19 2357.g23	2357.g27 2357.g30	2357.g32 2357.g34 2357.g34	7557 262 2357 262 2357 263	J6 2357 g18 2357 g22 2357 g28 2357 g33	

FIG. 67B.1

						73/8	9			
		OHQS2 DXP1	OXP'1 OHQS2	9	UN1/UMEF		OXP.1	DXP'1	. Z	
TACTGGTACTTCGATCTCTGGGGCCGTGGCACCCTGGTC	GCTTTGATATCTGGGGCCAAGGGACAATGGTC	TACTTTGACTACTGGGGCCAGGGAACCCTGGTC	ICTACCC . T	, W) A	T.	AACIGGTICGACCCTIGGGCCAGGGAACCCTGTC	attat ACIACIACIACIAGGATGGACGICIGGGGCCAAGGGACCACGGIC		
	CAGGGGGGATA	CATTGCctoaAtggggaT CGGattacgatattttgactggttattatGCG	GGgtattaTtatgAttcggggaCttattataaG ctaactggCT CATCTT	CAAGG CATCTT CAAACT	. CATggtatogcagcagctggtacgtggttcGAC . CAGGGC . CATCTT	GCCgggtataCcagcagctggtT CATCTT	. Grggttcggggalttatlatl CAAAGGG GGATCGTGG	CTCCCAATGACAGT CGGGGGtactatggttcggggagttattat TACTACTAC	CATGGGCGGCLGGLOCAGGTT. GATATGGGGGGGGCCTC CT. CCG	COR 111
70 ACCATCTCAGCGACAAGTCCATCAGCACGCCTACCTGCAGGAGCTGGAAGGCCTCGGACACCGCCATGTATTACTGTGCGAGA	CGCG	. CATIGGCtaaktggggaT . G. G. T	TTATAC6T.		<u> </u>	9)	Gegetteagggalttattatl (AAAGGGG GATGGTG GATGGTG AACTGGTTGACCCTGGGAAACCCTGGTC		, y	

FIG. 67B.2

•	74/89 	-
9	G G G G G G G G G G G G G G G G G G G	
WISBPI.GL T(CTGAGACTCTCTGGAGACTCTTCAGATACTATGCACTAGACTCCCCCCCC	A. A. G. A.	

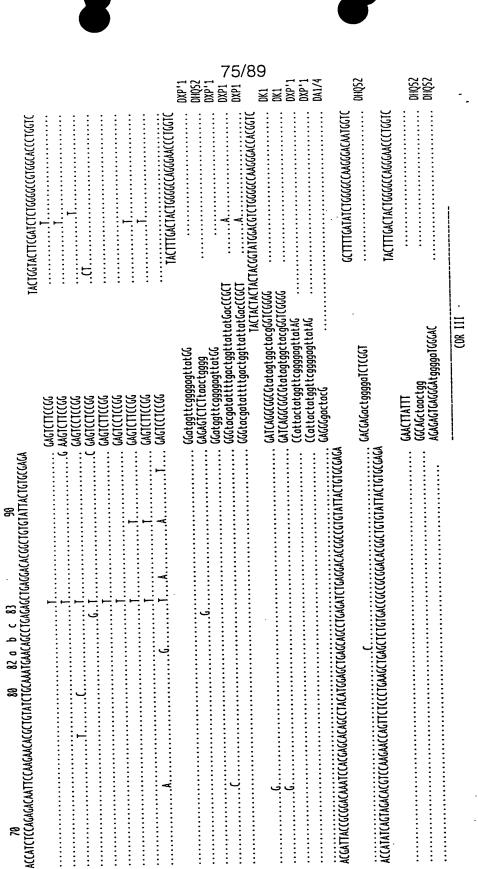
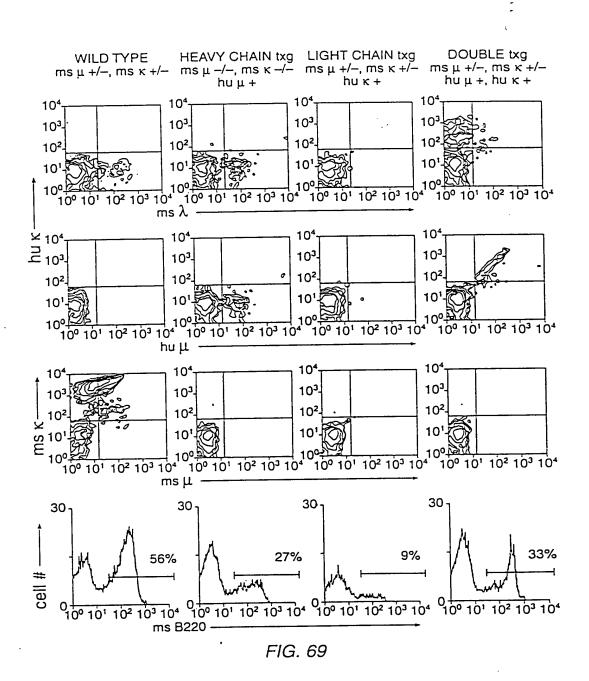


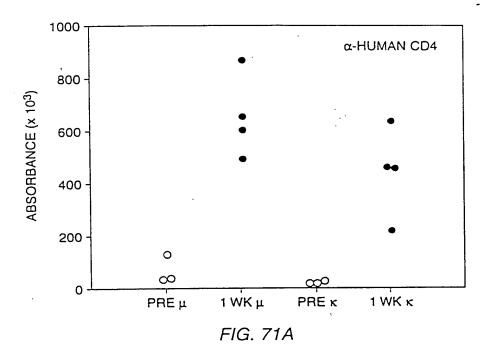
FIG. 68B

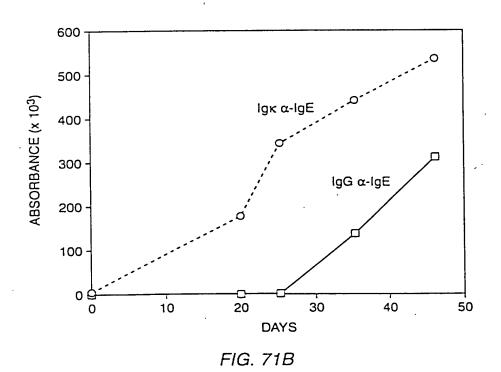


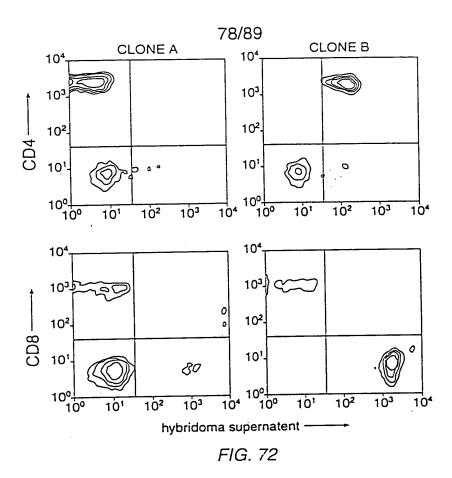












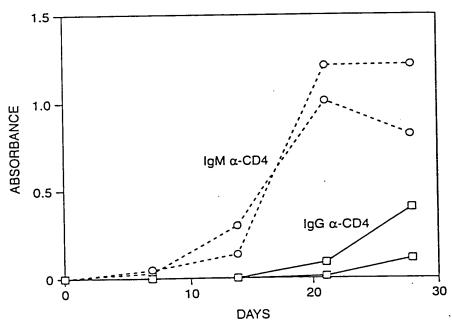


FIG. 73



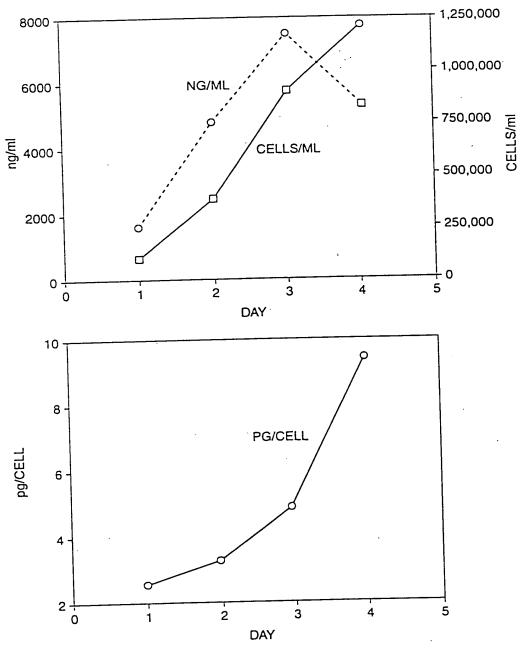


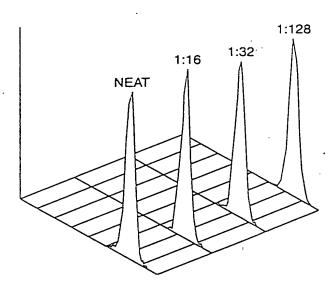
FIG. 74





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RPA-T4/2C11-8 #12:BDPHARMCOMP004\FL2-H\FL2-HEIGHT



Leu-3a/2C11-8 #12:BDPHARMCOMP025\FL2-H\FL2-HEIGHT

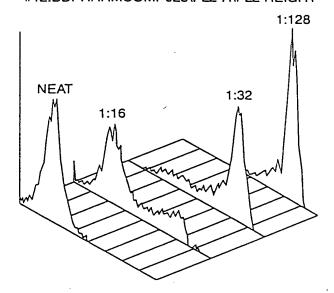


FIG. 75

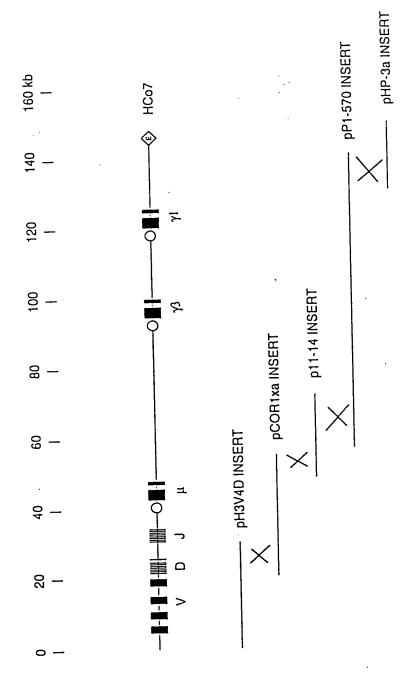


FIG. 76





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pGP2b sequence:

AAAAAAGCCCGCTCATTAGGCGGGCTCTTGGCAGAACATATCCATCGCGTCCGCCATCTCCAGCAGCCGCACGCGGCGCA TCTCGGGCAGCGTTGGGTCCTGGCCACGGGTGCGCATGATCGTGCTCCTGTCGTTGAGGACCCGGCTAGGCTGGCGGGGT TGAGTGATTTTTCTCTGGTCCCGCCGCATCCATACCGCCAGTTGTTTACCCTCACAACGTTCCAGTAACCGGGCATGTTC ATCATCAGTAACCCGTATCGTGAGCATCCTCTCTCGTTTCATCGGTATCATTACCCCCCATGAACAGAAATTCCCCCTTAC ACGGAGGCATCAAGTGACCAAACAGGAAAAAACCGCCCTTAACATGGCCCGCTTTATCAGAAGCCAGACATTAACGCTTC $CGCAGCTGCCTCGCGCGTTTCGGTGATGACGGTG \underline{A}\underline{A}\underline{A}\underline{A}CCTCTGACACATGC\underline{A}GCTCCCGG\underline{A}GACGGTC\underline{A}\underline{C}\underline{A}GCTTGTCT$ CCTGTGTGCACGAACCCCCCGTTCAGCCCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGA TGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAAGGACAGTATTTGGTATCTGCGCTC <u>AAAAATGAAGTTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGCA</u> CCTATCTCAGCGATCTGTCTATTTCGTTCATCCATAGTTGCCTGACTCCCCGTCGTGTAGATAACTACGATACGGGACGG CTTACCATCTGGCCCCAGTGCTGCAATGATACCGCGAGACCCACGCTCACCGGCTCCAGATTTATCAGCAATAAACCAGC AGAGTAAGTAGTTCGCCAGTTAATAGTTTGCGCAACGTTGTTGCCATTGCTGCAGGCATCGTGGTGTCACGCTCGTCGTT TGGTATGGCTTCATTCAGCTCCGGTTCCCAACGATCAAGGCGAGTTACATGATCCCCCATGTTGTGCAAAAAAGCGGTTA TCTCTTACTGTCATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAATAGTGTAT TTGGAAAACGTTCTTCGGGGCGAAAACTCTCAAGGATCTTACCGCTGTTGAGATCCAGTTCGATGTAACCCACTCGTGCA CCCAACTGATCTTCAGCATCTTTTACTTTCACCAGCGTTTCTGGGTGAGCAAAAACAGGAAGGCAAAATGCCGCAAAAAA CGGAATAAGGGCGACACGGAAATGTTGAATACTCATACTCTTCCTTTTTCAATATTATTGAAGCATTTATCAGGGTTATT GTCTCATGAGCGGATACATATTTGAATGTATTTAGAAAAATAAACAAATAGGGGTTCCGCGCACATTTCCCCGAAAAGTG AG

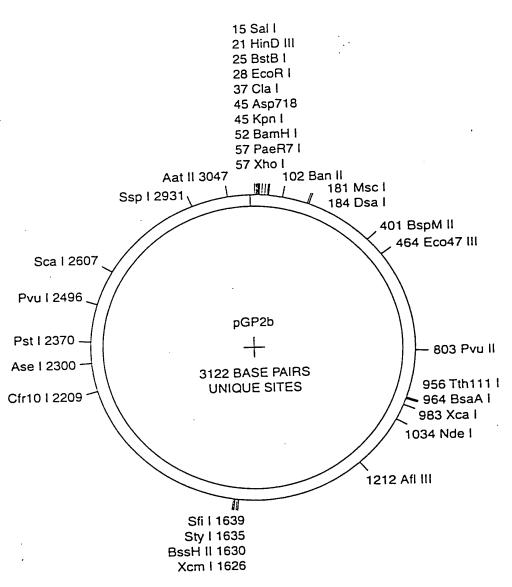
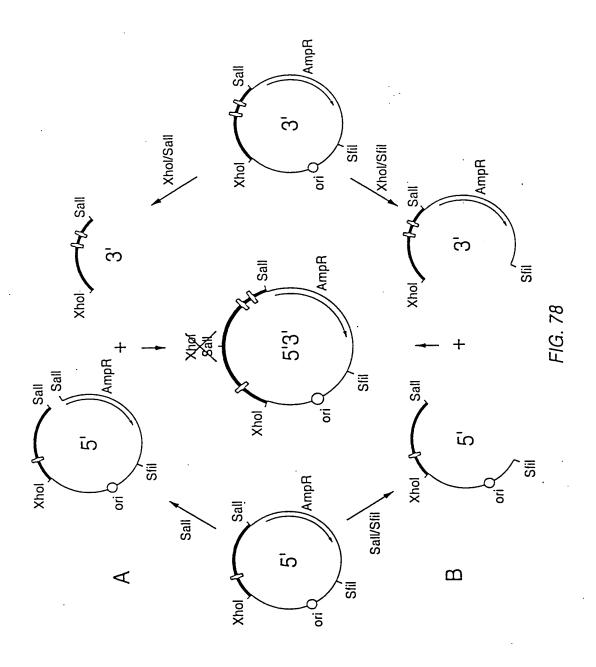


FIG. 77B



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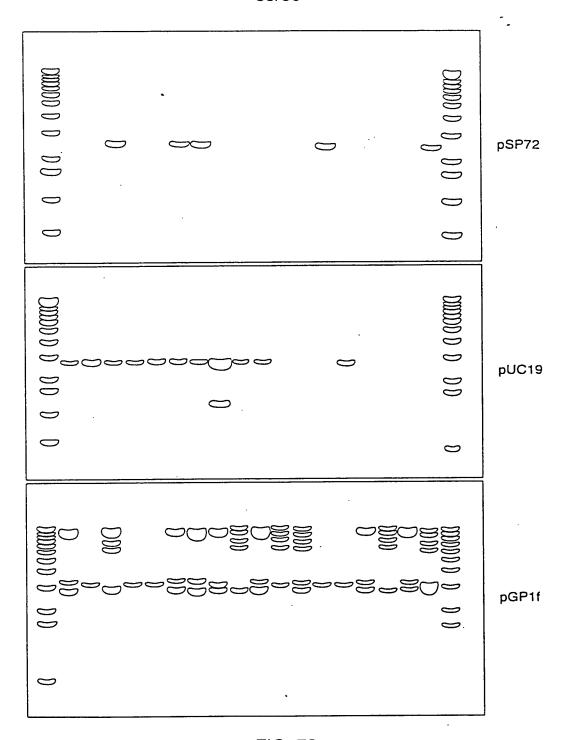
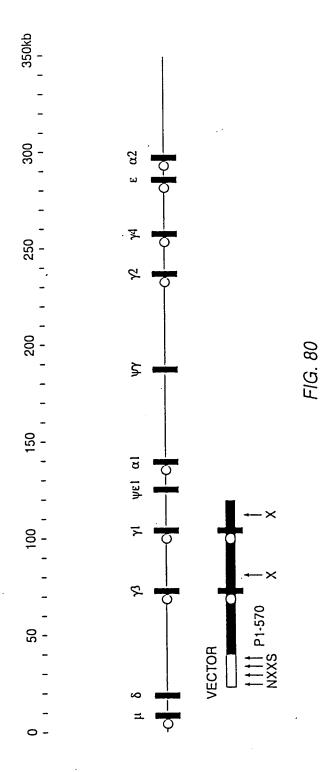
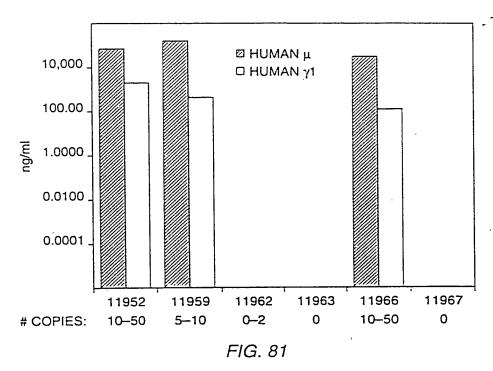
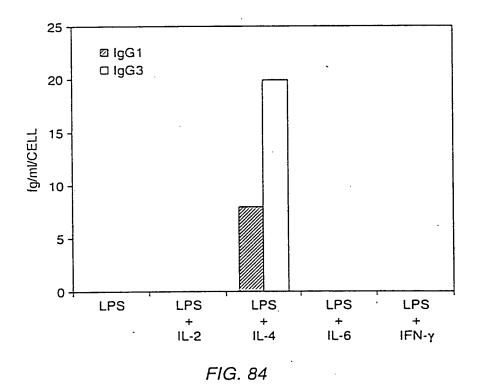


FIG. 79









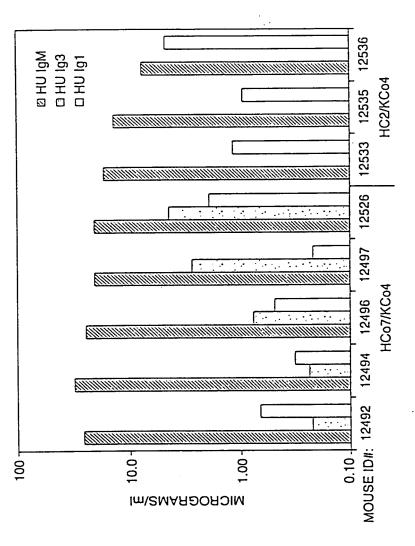
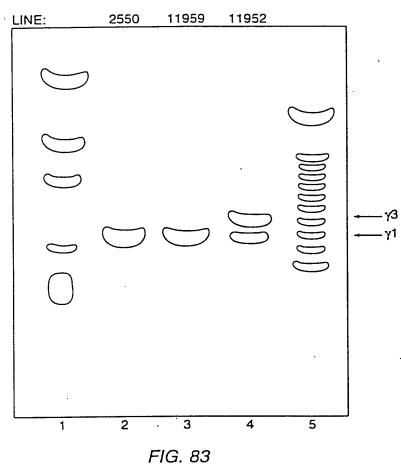


FIG. 82

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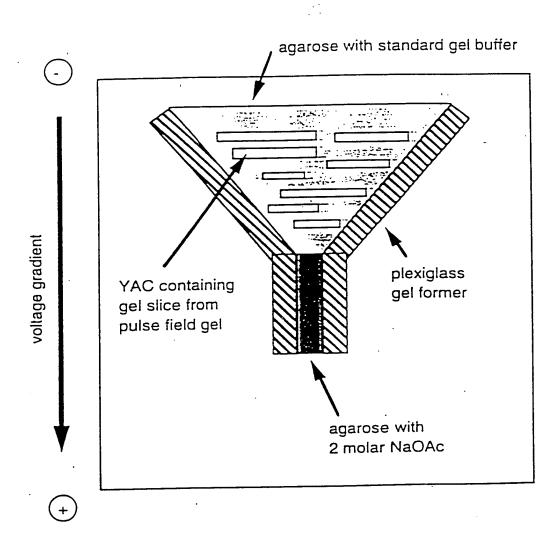


Figure 85

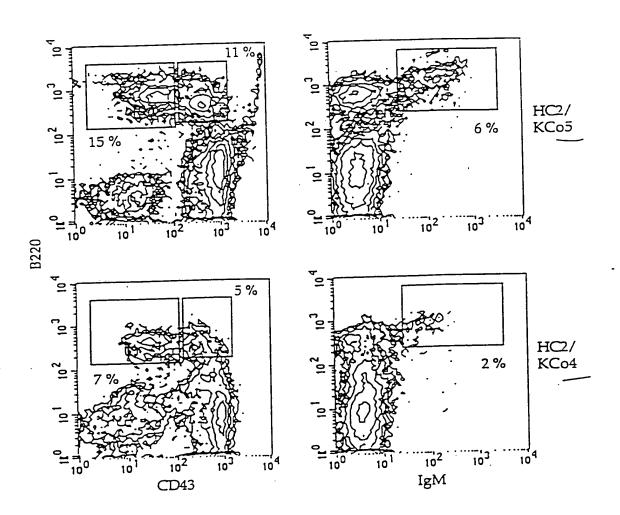


Figure 86

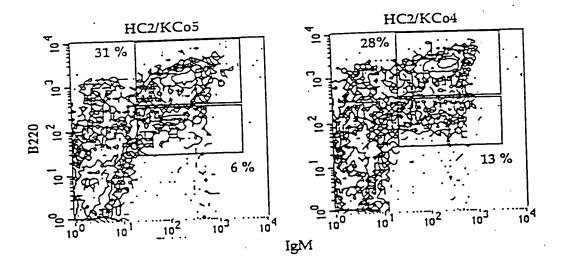


Figure 87

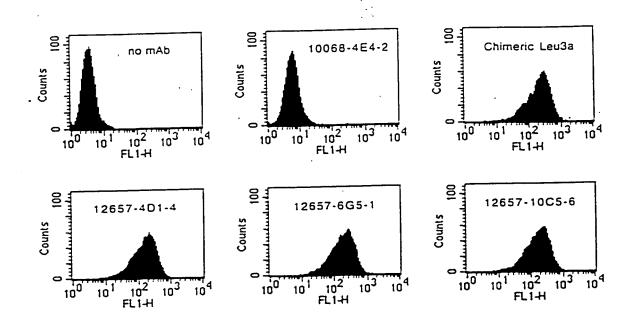


Figure 88

Cells pre-incubated with:

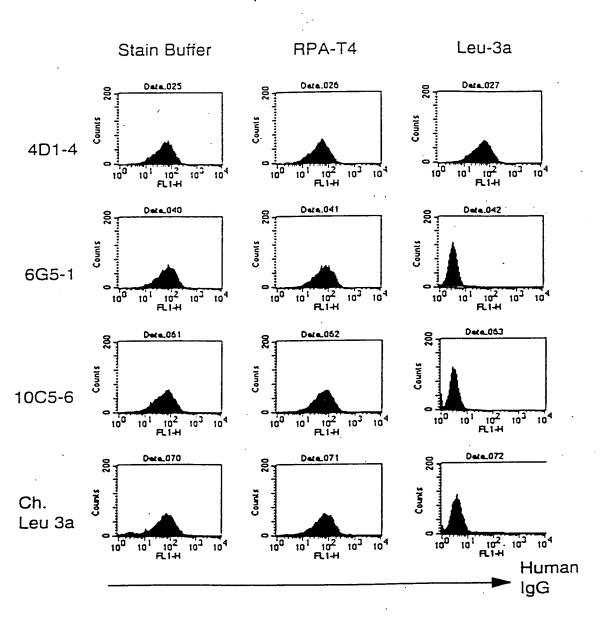


Figure 89

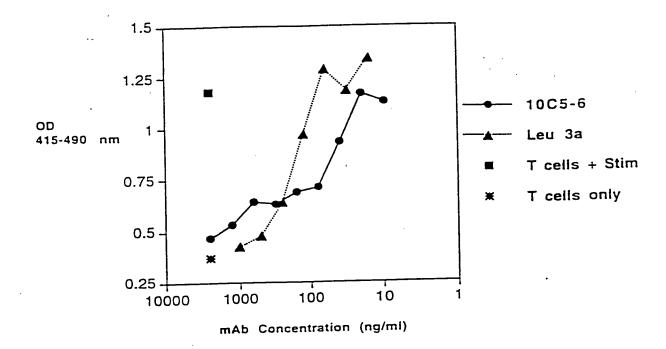


Figure 90

Figure 91

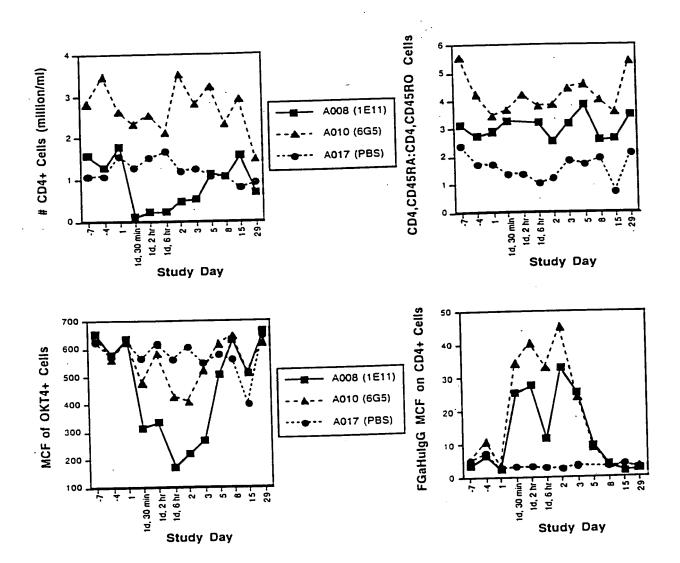


Figure 92

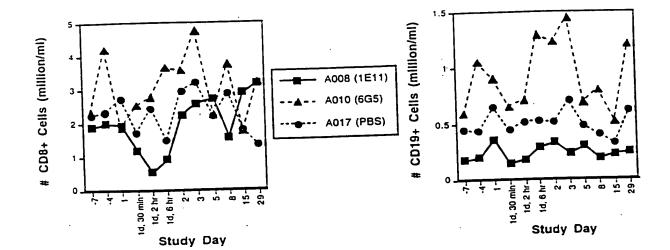


Figure 93

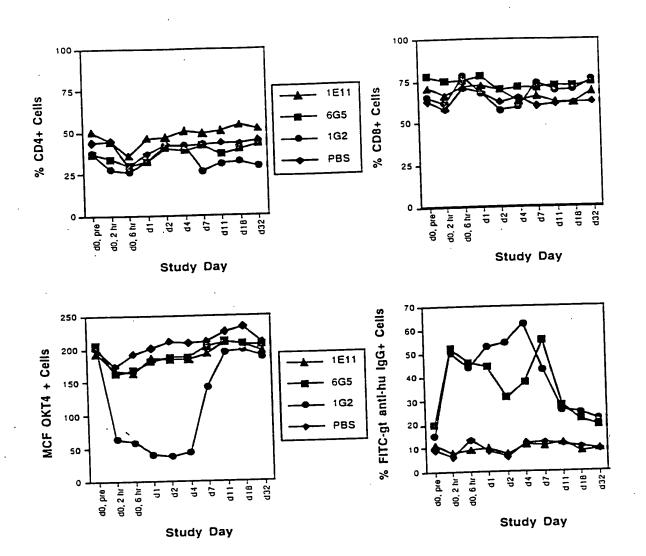


Figure 94

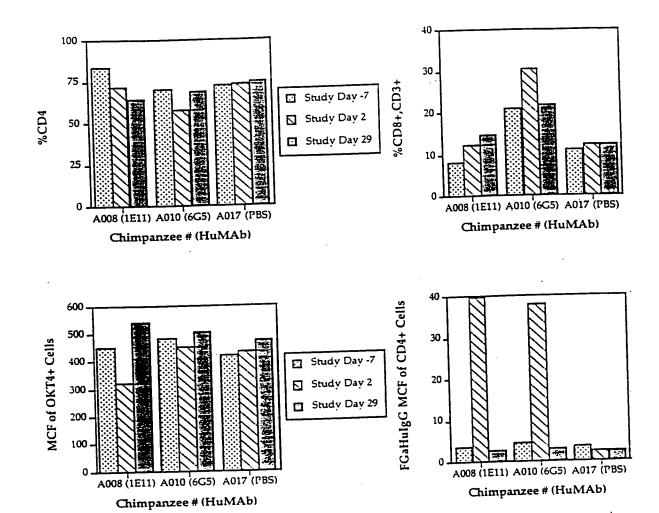


Figure 95

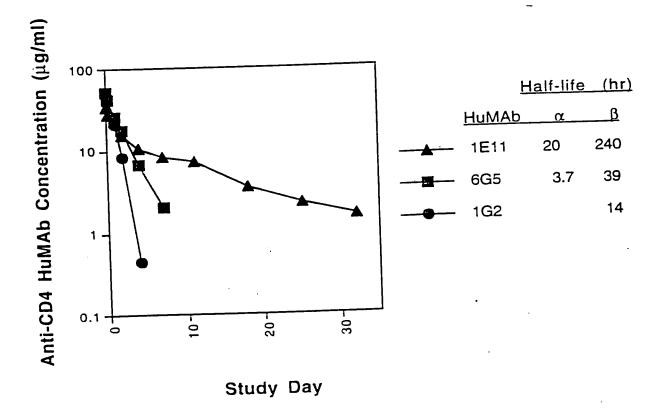
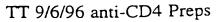
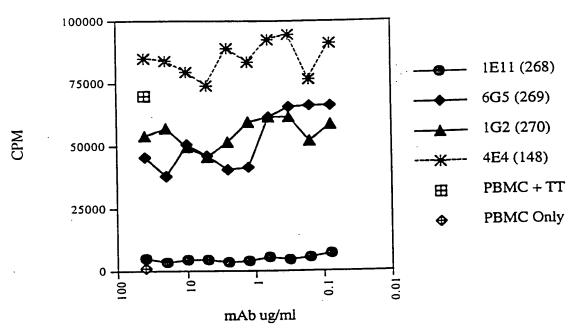


Figure 96





TT 10/2/96 anti-CD4 Preps

